



**NANJING SHIHENG ELECTRONICS CO., LTD.**

## **MF73T Series High Power NTC Thermistors for Inrush Current Suppression**

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### **MF73T Series High Power NTC Thermistors for Inrush Current Suppression**

#### **Precision • Stability • Reliability**

Designed for high surge absorption and stable resistance characteristics, the MF73T Series provides reliable protection in high-power circuits such as EV chargers, inverters, and industrial power systems.

With wide operating temperature range and multiple lead configurations, it ensures excellent performance and long-term reliability in demanding applications.

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Specifications and data are subject to change without prior notice.  
Please contact us for the latest specifications.

## Features

- Compliant with RoHS, Halogen-Free, and REACH requirements
- Body size: Ø5 mm to Ø40 mm
- Radial leads coated with silicon resin
- Operating temperature range: -40°C to +200°C
- Safety certifications: UL / cUL / TÜV / CQC

## Applications

- EV charging stations and on-board chargers
- Welding and cutting equipment
- Satellite power supplies
- High-power frequency converters, inverters, and toroidal transformers
- Professional high-power audio amplifiers
- Radar transmitter power systems
- Electronic countermeasure (ECM) systems
- AI server power supplies, data center servers, and 5G base stations

## Part Number Construction



MF73T-1



Shiheng Electronics

Part Number

Maximum Steady-State Current

Zero-Power Resistance at 25°C



MF73T-2



Shiheng Electronics

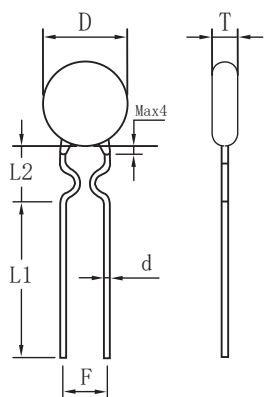
Part Number

Maximum Steady-State Current

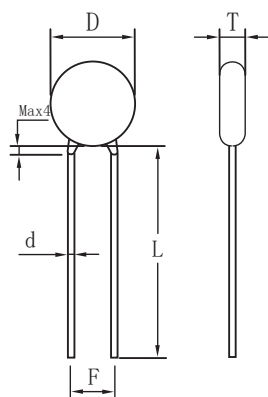
Zero-Power Resistance at 25°C

## Structure and Dimension

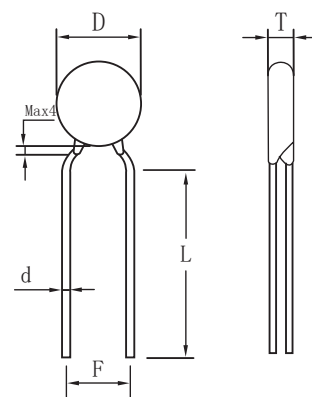
### 1.MF73T-1



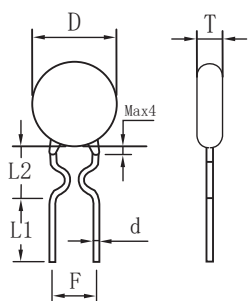
Inward-Formed Long Leads



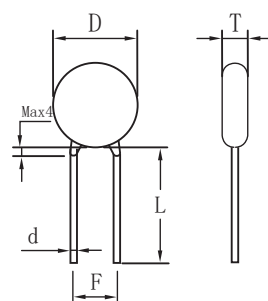
Straight Long Leads



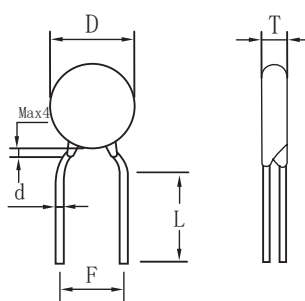
Shoulder-Formed Long Leads



Inward-Formed Short Leads

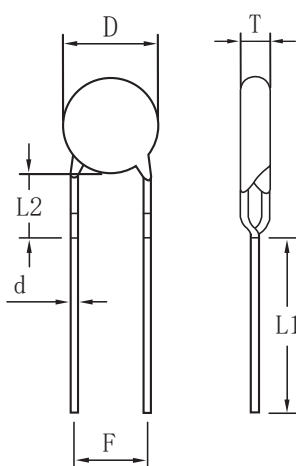


Straight Short Leads

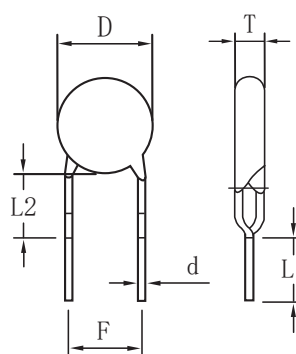


Shoulder-Formed Short Leads

### 1.MF73T-2



Long Formed Leads



Short Formed Leads

## Mechanical Specifications (Unit: mm)

| Part No.        | Body Diameter | D <sub>max</sub> | T <sub>max</sub> | d ± 0.05 | F ± 0.5 | L <sub>min</sub> | Formed Leads      |        |
|-----------------|---------------|------------------|------------------|----------|---------|------------------|-------------------|--------|
|                 |               |                  |                  |          |         |                  | L1 <sub>min</sub> | L2 ± 2 |
| MF73T-1 1/2.5   | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 2/2     | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 3/1.5   | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 5/1.5   | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 8/1     | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 10/1    | Ø3            | 4.5              | 4.0              | 0.45     | 2.5     | 25               | /                 | /      |
| MF73T-1 1/3.5   | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/3   | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 3/2.5   | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 5/2.5   | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 8/2     | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 10/2    | Ø5            | 6.0              | 5.0              | 0.45     | 2.5     | 25               | 20/3.5            | 5      |
| MF73T-1 1/4.5   | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/4   | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 3/4     | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 5/3     | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 8/2.5   | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 10/2.5  | Ø7            | 8.0              | 5.0              | 0.6      | 5       | 25               | 20/3.5            | 5      |
| MF73T-1 1/6     | Ø9            | 10.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/5   | Ø9            | 10.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 5/4     | Ø9            | 10.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 8/3     | Ø9            | 10.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 10/3    | Ø9            | 10.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 1/7     | Ø11           | 12.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/6   | Ø11           | 12.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 5/5     | Ø11           | 12.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 8/4     | Ø11           | 12.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 10/4    | Ø11           | 12.0             | 5.5              | 0.8      | 7.5/5   | 25               | 20/3.5            | 5      |
| MF73T-1 1/9     | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 1.5/9   | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/8   | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 5/7     | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 8/6     | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 10/6    | Ø13           | 14.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 1/10.5  | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 1.5/10  | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 2.5/9.5 | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 4.7/8.6 | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 5/8     | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 8/7     | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 10/7    | Ø15           | 16.0             | 6.0              | 0.8      | 7.5     | 25               | 20/3.5            | 5      |
| MF73T-1 0.5/16  | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 0.5/16  | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 0.7/16  | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 0.7/16  | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 1/16    | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 1/16    | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 1.5/15  | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |

# Inrush Current Limiter: MF73T Series

| Part No.       | Body Diameter | D <sub>max</sub> | T <sub>max</sub> | d ± 0.05 | F ± 0.5 | L <sub>min</sub> | Formed Leads      |        |
|----------------|---------------|------------------|------------------|----------|---------|------------------|-------------------|--------|
|                |               |                  |                  |          |         |                  | L1 <sub>min</sub> | L2 ± 2 |
| MF73T-2 1.5/15 | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 2/14   | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 2/14   | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 2.5/13 | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 2.5/13 | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 3/12   | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 3/12   | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 4/12   | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 4/12   | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 4.7/12 | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 4.7/12 | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 5/12   | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 5/12   | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 7/9    | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 7/9    | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 8/9    | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 8/9    | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 10/8   | Ø20           | 21.0             | 7.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 10/8   | Ø20           | 21.0             | 10.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 0.7/22 | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 0.7/22 | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 1/20   | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 1/20   | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 1.5/19 | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 1.5/19 | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 2.5/16 | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 2.5/16 | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 5/14   | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 5/14   | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 8/10   | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 8/10   | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 10/10  | Ø25           | 27.5             | 8.0              | 1.0      | 10      | 25               | 20/4              | 8      |
| MF73T-2 10/10  | Ø25           | 27.5             | 12.0             | 1.2      | 10      | 25               | 20/4              | 8      |
| MF73T-1 0.5/30 | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 0.5/30 | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 1/30   | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 1/30   | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 2/23   | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 2/23   | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 3/19.5 | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 3/19.5 | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 5/17   | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 5/17   | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 8/14   | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 8/14   | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 10/13  | Ø30           | 35.0             | 10.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-2 10/13  | Ø30           | 35.0             | 15.0             | 1.6      | 18      | 25               | /                 | /      |
| MF73T-1 0.5/32 | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 0.5/32 | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 1/32   | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |

# Inrush Current Limiter: MF73T Series

| Part No.       | Body Diameter | D <sub>max</sub> | T <sub>max</sub> | d ± 0.05 | F ± 0.5 | L <sub>min</sub> | Formed Leads      |        |
|----------------|---------------|------------------|------------------|----------|---------|------------------|-------------------|--------|
|                |               |                  |                  |          |         |                  | L1 <sub>min</sub> | L2 ± 2 |
| MF73T-2 1/32   | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 2/25   | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 2/25   | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 3/22   | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 3/22   | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 5/19   | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 5/19   | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 8/16   | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 8/16   | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 10/15  | Ø35           | 40.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 10/15  | Ø35           | 40.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 0.5/40 | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 0.5/40 | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 1/40   | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 1/40   | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 2/32   | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 2/32   | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 3/28   | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 3/28   | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 5/25   | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 5/25   | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 8/20   | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-2 8/20   | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 10/19  | Ø40           | 45.0             | 12.0             | 2.0      | 18      | 25               | /                 | /      |
| MF73T-1 10/19  | Ø40           | 45.0             | 18.0             | 2.0      | 18      | 25               | /                 | /      |

Note: For products with a body diameter of Ø30 mm to Ø40 mm, only straight-lead types are available; formed-lead versions are not provided.

## Electrical Specifications

| Part No.        | Body Diameter | R <sub>25</sub> ± 20% | B Value (25/50°C) ± 10% | Maximum Steady-State Current | Residual Resistance (Approx) | Max. Capacitance @ 240 Vac | Max. Capacitance @ 120 Vac | P <sub>max</sub> | Operating Temperature Range          | Certifications |     |     |
|-----------------|---------------|-----------------------|-------------------------|------------------------------|------------------------------|----------------------------|----------------------------|------------------|--------------------------------------|----------------|-----|-----|
|                 | mm            | Ω                     | K                       | A                            | Ω                            | μF                         | μF                         | w                | T <sub>L</sub> ~ T <sub>U</sub> (°C) | UL / cUL       | TÜV | CQC |
| MF73T-1 1/2.5   | Ø3            | 1                     | 2500                    | 2.5                          | 0.075                        | 100                        | 400                        | 1.5              | -40 ~ +150                           |                | √   | √   |
| MF73T-1 2/2     | Ø3            | 2                     | 2500                    | 2                            | 0.162                        | 100                        | 400                        |                  |                                      |                | √   | √   |
| MF73T-1 3/1.5   | Ø3            | 3                     | 2500                    | 1.5                          | 0.089                        | 100                        | 400                        |                  |                                      |                | √   | √   |
| MF73T-1 5/1.5   | Ø3            | 5                     | 2500                    | 1.5                          | 0.125                        | 100                        | 400                        |                  |                                      | √              | √   | √   |
| MF73T-1 8/1     | Ø3            | 8                     | 2600                    | 1                            | 0.328                        | 100                        | 400                        |                  |                                      | √              | √   | √   |
| MF73T-1 10/1    | Ø3            | 10                    | 2600                    | 1                            | 0.402                        | 100                        | 400                        |                  |                                      | √              | √   | √   |
| MF73T-1 1/3.5   | Ø5            | 1                     | 2500                    | 3.5                          | 0.067                        | 110                        | 440                        | 1.8              | -40 ~ +150                           |                | √   | √   |
| MF73T-1 2.5/3   | Ø5            | 2.5                   | 2500                    | 3                            | 0.114                        | 110                        | 600                        |                  |                                      | √              | √   | √   |
| MF73T-1 3/2.5   | Ø5            | 3                     | 2500                    | 2.5                          | 0.101                        | 110                        | 440                        |                  |                                      | √              | √   | √   |
| MF73T-1 5/2.5   | Ø5            | 5                     | 2500                    | 2.5                          | 0.114                        | 110                        | 440                        |                  |                                      | √              | √   | √   |
| MF73T-1 8/2     | Ø5            | 8                     | 2600                    | 2                            | 0.241                        | 110                        | 440                        |                  |                                      | √              | √   | √   |
| MF73T-1 10/2    | Ø5            | 10                    | 2600                    | 2                            | 0.306                        | 110                        | 440                        |                  |                                      | √              | √   | √   |
| MF73T-1 1/4.5   | Ø7            | 1                     | 2600                    | 4.5                          | 0.054                        | 220                        | 600                        | 2.0              | -40 ~ +150                           | √              | √   | √   |
| MF73T-1 2.5/4   | Ø7            | 2.5                   | 2600                    | 4                            | 0.096                        | 220                        | 600                        |                  |                                      | √              | √   | √   |
| MF73T-1 3/4     | Ø7            | 3                     | 2600                    | 4                            | 0.112                        | 220                        | 600                        |                  |                                      | √              | √   | √   |
| MF73T-1 5/3     | Ø7            | 5                     | 2600                    | 3                            | 0.140                        | 220                        | 600                        |                  |                                      | √              | √   | √   |
| MF73T-1 8/2.5   | Ø7            | 8                     | 2600                    | 2.5                          | 0.212                        | 150                        | 400                        |                  |                                      | √              | √   | √   |
| MF73T-1 10/2.5  | Ø7            | 10                    | 2800                    | 2.5                          | 0.251                        | 150                        | 400                        |                  |                                      | √              | √   | √   |
| MF73T-1 1/6     | Ø9            | 1                     | 2600                    | 6                            | 0.043                        | 470                        | 880                        | 2.3              | -40 ~ +170                           | √              | √   | √   |
| MF73T-1 2.5/5   | Ø9            | 2.5                   | 2600                    | 5                            | 0.068                        | 470                        | 880                        |                  |                                      | √              | √   | √   |
| MF73T-1 5/4     | Ø9            | 5                     | 2600                    | 4                            | 0.123                        | 330                        | 880                        |                  |                                      | √              | √   | √   |
| MF73T-1 8/3     | Ø9            | 8                     | 2800                    | 3                            | 0.164                        | 220                        | 880                        |                  |                                      | √              | √   | √   |
| MF73T-1 10/3    | Ø9            | 10                    | 2800                    | 3                            | 0.203                        | 220                        | 880                        |                  |                                      | √              | √   | √   |
| MF73T-1 1/7     | Ø11           | 1                     | 2600                    | 7                            | 0.035                        | 560                        | 1880                       | 2.5              | -40 ~ +170                           | √              | √   | √   |
| MF73T-1 2.5/6   | Ø11           | 2.5                   | 2600                    | 6                            | 0.055                        | 560                        | 1880                       |                  |                                      | √              | √   | √   |
| MF73T-1 5/5     | Ø11           | 5                     | 2800                    | 5                            | 0.097                        | 560                        | 1880                       |                  |                                      | √              | √   | √   |
| MF73T-1 8/4     | Ø11           | 8                     | 2800                    | 4                            | 0.123                        | 470                        | 1880                       |                  |                                      | √              | √   | √   |
| MF73T-1 10/4    | Ø11           | 10                    | 2800                    | 4                            | 0.151                        | 470                        | 1880                       |                  |                                      | √              | √   | √   |
| MF73T-1 1/9     | Ø13           | 1                     | 2600                    | 9                            | 0.031                        | 680                        | 2720                       | 3.2              | -40 ~ +200                           | √              | √   | √   |
| MF73T-1 1.5/9   | Ø13           | 1.5                   | 2600                    | 9                            | 0.032                        | 680                        | 2720                       |                  |                                      | √              | √   | √   |
| MF73T-1 2.5/8   | Ø13           | 2.5                   | 2600                    | 8                            | 0.049                        | 680                        | 2720                       |                  |                                      | √              | √   | √   |
| MF73T-1 5/7     | Ø13           | 5                     | 2800                    | 7                            | 0.069                        | 560                        | 2240                       |                  |                                      | √              | √   | √   |
| MF73T-1 8/6     | Ø13           | 8                     | 3000                    | 6                            | 0.092                        | 560                        | 2240                       |                  |                                      | √              | √   | √   |
| MF73T-1 10/6    | Ø13           | 10                    | 3000                    | 6                            | 0.111                        | 560                        | 2240                       |                  |                                      | √              | √   | √   |
| MF73T-1 1/10.5  | Ø15           | 1                     | 2600                    | 10.5                         | 0.029                        | 1000                       | 4000                       | 3.6              | -40 ~ +200                           | √              | √   | √   |
| MF73T-1 1.5/10  | Ø15           | 1.5                   | 2600                    | 10                           | 0.033                        | 820                        | 3280                       |                  |                                      | √              | √   | √   |
| MF73T-1 2.5/9.5 | Ø15           | 2.5                   | 2600                    | 9.5                          | 0.040                        | 820                        | 3280                       |                  |                                      | √              | √   | √   |
| MF73T-1 4.7/8.6 | Ø15           | 4.7                   | 3000                    | 8.6                          | 0.050                        | 820                        | 3280                       |                  |                                      |                | √   | √   |
| MF73T-1 5/8     | Ø15           | 5                     | 3000                    | 8                            | 0.058                        | 820                        | 3280                       |                  |                                      | √              | √   | √   |

# Inrush Current Limiter: MF73T Series

| Part No.       | Body Diameter | R <sub>25</sub><br>± 20% | B Value<br>(25/50°C)<br>± 10% | Maximum<br>Steady-State<br>Current | Residual<br>Resistance<br>(Approx) | Max.<br>Capacitance<br>@ 240 Vac | Max.<br>Capacitance<br>@ 120 Vac | P <sub>max</sub> | Operating<br>Temperature<br>Range    | Certifications |     |     |
|----------------|---------------|--------------------------|-------------------------------|------------------------------------|------------------------------------|----------------------------------|----------------------------------|------------------|--------------------------------------|----------------|-----|-----|
|                | mm            | Ω                        | K                             | A                                  | Ω                                  | μF                               | μF                               | W                | T <sub>L</sub> ~ T <sub>U</sub> (°C) | UL / cUL       | TÜV | CQC |
| MF73T-1 8/7    | Ø15           | 8                        | 3000                          | 7                                  | 0.077                              | 680                              | 2720                             | 3.6              | -40 ~ +200                           | √              | √   | √   |
| MF73T-1 10/7   | Ø15           | 10                       | 3200                          | 7                                  | 0.084                              | 680                              | 2720                             |                  |                                      | √              | √   | √   |
| MF73T-1 0.5/16 | Ø20           | 0.5                      | 2600                          | 16                                 | 0.014                              | 1500                             | 6000                             | 5.0              | -40 ~ +200                           |                | √   | √   |
| MF73T-2 0.5/16 | Ø20           | 0.5                      | 2600                          | 16                                 | 0.019                              | 3000                             | 12000                            |                  |                                      |                | √   | √   |
| MF73T-1 0.7/16 | Ø20           | 0.7                      | 2600                          | 16                                 | 0.017                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-2 0.7/16 | Ø20           | 0.7                      | 2600                          | 16                                 | 0.022                              | 3000                             | 12000                            |                  |                                      | √              | √   | √   |
| MF73T-1 1/16   | Ø20           | 1                        | 2600                          | 16                                 | 0.020                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-2 1/16   | Ø20           | 1                        | 2600                          | 16                                 | 0.025                              | 3000                             | 12000                            |                  |                                      | √              | √   | √   |
| MF73T-1 1.5/15 | Ø20           | 1.5                      | 2600                          | 15                                 | 0.024                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-2 1.5/15 | Ø20           | 1.5                      | 2600                          | 15                                 | 0.029                              | 3000                             | 12000                            |                  |                                      | √              | √   | √   |
| MF73T-1 2/14   | Ø20           | 2                        | 2600                          | 14                                 | 0.031                              | 1500                             | 6000                             |                  |                                      |                | √   | √   |
| MF73T-2 2/14   | Ø20           | 2                        | 2600                          | 14                                 | 0.036                              | 3000                             | 12000                            |                  |                                      |                | √   | √   |
| MF73T-1 2.5/13 | Ø20           | 2.5                      | 2800                          | 13                                 | 0.035                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-2 2.5/13 | Ø20           | 2.5                      | 2800                          | 13                                 | 0.040                              | 3000                             | 12000                            |                  |                                      | √              | √   | √   |
| MF73T-1 3/12   | Ø20           | 3                        | 2800                          | 12                                 | 0.038                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |
| MF73T-2 3/12   | Ø20           | 3                        | 2800                          | 12                                 | 0.043                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-1 4/12   | Ø20           | 4                        | 2800                          | 12                                 | 0.044                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |
| MF73T-2 4/12   | Ø20           | 4                        | 2800                          | 12                                 | 0.049                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-1 4.7/12 | Ø20           | 4.7                      | 3000                          | 12                                 | 0.048                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |
| MF73T-2 4.7/12 | Ø20           | 4.7                      | 3000                          | 12                                 | 0.053                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-1 5/12   | Ø20           | 5                        | 3000                          | 12                                 | 0.050                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |
| MF73T-2 5/12   | Ø20           | 5                        | 3000                          | 12                                 | 0.055                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-1 7/9    | Ø20           | 7                        | 3000                          | 9                                  | 0.072                              | 1000                             | 4000                             |                  |                                      |                | √   | √   |
| MF73T-2 7/9    | Ø20           | 7                        | 3000                          | 9                                  | 0.078                              | 1500                             | 6000                             |                  |                                      |                | √   | √   |
| MF73T-1 8/9    | Ø20           | 8                        | 3000                          | 9                                  | 0.085                              | 1000                             | 4000                             |                  |                                      | √              | √   | √   |
| MF73T-2 8/9    | Ø20           | 8                        | 3000                          | 9                                  | 0.091                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-1 10/8   | Ø20           | 10                       | 3000                          | 8                                  | 0.093                              | 1000                             | 4000                             |                  |                                      | √              | √   | √   |
| MF73T-2 10/8   | Ø20           | 10                       | 3000                          | 8                                  | 0.099                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-1 0.7/22 | Ø25           | 0.7                      | 2600                          | 22                                 | 0.015                              | 2200                             | 8800                             | 7.0              | -40 ~ +200                           | √              | √   | √   |
| MF73T-2 0.7/22 | Ø25           | 0.7                      | 2600                          | 22                                 | 0.021                              | 3500                             | 14000                            |                  |                                      | √              | √   | √   |
| MF73T-1 1/20   | Ø25           | 1                        | 2600                          | 20                                 | 0.019                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-2 1/20   | Ø25           | 1                        | 2600                          | 20                                 | 0.025                              | 3500                             | 14000                            |                  |                                      | √              | √   | √   |
| MF73T-1 1.5/19 | Ø25           | 1.5                      | 2600                          | 19                                 | 0.029                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-2 1.5/19 | Ø25           | 1.5                      | 2600                          | 19                                 | 0.035                              | 3500                             | 14000                            |                  |                                      | √              | √   | √   |
| MF73T-1 2.5/16 | Ø25           | 2.5                      | 2800                          | 16                                 | 0.031                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-2 2.5/16 | Ø25           | 2.5                      | 2800                          | 16                                 | 0.039                              | 3500                             | 14000                            |                  |                                      | √              | √   | √   |
| MF73T-1 5/14   | Ø25           | 5                        | 3000                          | 14                                 | 0.045                              | 1500                             | 6000                             |                  |                                      | √              | √   | √   |
| MF73T-2 5/14   | Ø25           | 5                        | 3000                          | 14                                 | 0.051                              | 2800                             | 11200                            |                  |                                      | √              | √   | √   |
| MF73T-1 8/10   | Ø25           | 8                        | 3200                          | 10                                 | 0.072                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |
| MF73T-2 8/10   | Ø25           | 8                        | 3200                          | 10                                 | 0.078                              | 2200                             | 8800                             |                  |                                      | √              | √   | √   |
| MF73T-1 10/10  | Ø25           | 10                       | 3200                          | 10                                 | 0.076                              | 1200                             | 4800                             |                  |                                      | √              | √   | √   |

# Inrush Current Limiter: MF73T Series

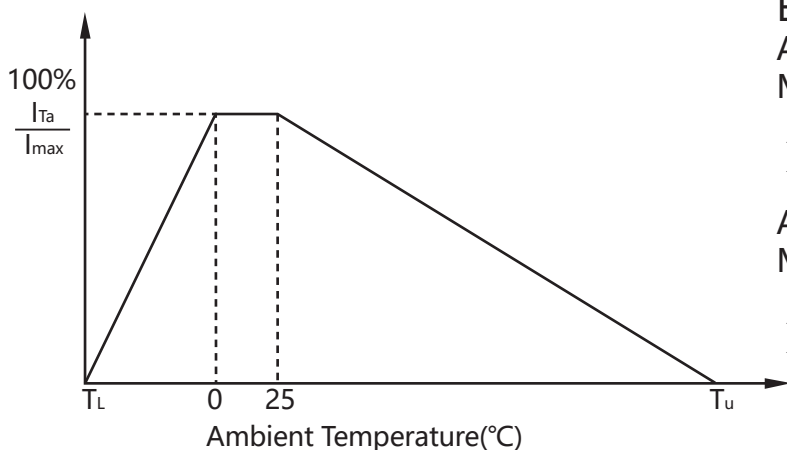
| Part No.       | Body Diameter | R <sub>25</sub><br>± 20% | B Value<br>(25/50°C)<br>± 10% | Maximum<br>Steady-State<br>Current | Residual<br>Resistance<br>(Approx) | Max.<br>Capacitance<br>@ 240 Vac | Max.<br>Capacitance<br>@ 120 Vac | P <sub>max</sub> | Operating<br>Temperature<br>Range    | Certifications |     |     |
|----------------|---------------|--------------------------|-------------------------------|------------------------------------|------------------------------------|----------------------------------|----------------------------------|------------------|--------------------------------------|----------------|-----|-----|
|                | mm            | Ω                        | K                             | A                                  | Ω                                  | μF                               | μF                               | W                | T <sub>L</sub> ~ T <sub>U</sub> (°C) | UL / cUL       | TÜV | CQC |
| MF73T-2 10/10  | Ø25           | 10                       | 3200                          | 10                                 | 0.082                              | 2200                             | 8800                             | 7.0              | -40 ~ +200                           | ✓              | ✓   | ✓   |
| MF73T-1 0.5/30 | Ø30           | 0.5                      | 2600                          | 30                                 | 0.008                              | 3000                             | 12000                            | 8.0              | -40 ~ +200                           | ✓              | ✓   | ✓   |
| MF73T-2 0.5/30 | Ø30           | 0.5                      | 2600                          | 30                                 | 0.014                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 1/30   | Ø30           | 1                        | 2600                          | 30                                 | 0.014                              | 3000                             | 12000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 1/30   | Ø30           | 1                        | 2600                          | 30                                 | 0.020                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 2/23   | Ø30           | 2                        | 2600                          | 23                                 | 0.027                              | 3000                             | 12000                            |                  |                                      |                | ✓   | ✓   |
| MF73T-2 2/23   | Ø30           | 2                        | 2600                          | 23                                 | 0.034                              | 5200                             | 20800                            |                  |                                      |                | ✓   | ✓   |
| MF73T-1 3/19.5 | Ø30           | 3                        | 2800                          | 19.5                               | 0.036                              | 2200                             | 8800                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 3/19.5 | Ø30           | 3                        | 2800                          | 19.5                               | 0.043                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 5/17   | Ø30           | 5                        | 3000                          | 17                                 | 0.054                              | 2200                             | 8800                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 5/17   | Ø30           | 5                        | 3000                          | 17                                 | 0.061                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 8/14   | Ø30           | 8                        | 3200                          | 14                                 | 0.068                              | 1500                             | 6000                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 8/14   | Ø30           | 8                        | 3200                          | 14                                 | 0.075                              | 4700                             | 18800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 10/13  | Ø30           | 10                       | 3200                          | 13                                 | 0.085                              | 1500                             | 6000                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 10/13  | Ø30           | 10                       | 3200                          | 13                                 | 0.093                              | 4700                             | 18800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 0.5/32 | Ø35           | 0.5                      | 2600                          | 32                                 | 0.008                              | 3300                             | 13200                            | 9.0              | -40 ~ +200                           | ✓              | ✓   | ✓   |
| MF73T-2 0.5/32 | Ø35           | 0.5                      | 2600                          | 32                                 | 0.014                              | 6800                             | 27200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 1/32   | Ø35           | 1                        | 2600                          | 32                                 | 0.017                              | 3300                             | 13200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 1/32   | Ø35           | 1                        | 2600                          | 32                                 | 0.022                              | 6800                             | 27200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 2/25   | Ø35           | 2                        | 2600                          | 25                                 | 0.025                              | 3300                             | 13200                            |                  |                                      |                | ✓   | ✓   |
| MF73T-2 2/25   | Ø35           | 2                        | 2600                          | 25                                 | 0.032                              | 6800                             | 27200                            |                  |                                      |                | ✓   | ✓   |
| MF73T-1 3/22   | Ø35           | 3                        | 2800                          | 22                                 | 0.035                              | 3000                             | 12000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 3/22   | Ø35           | 3                        | 2800                          | 22                                 | 0.042                              | 6800                             | 27200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 5/19   | Ø35           | 5                        | 3000                          | 19                                 | 0.052                              | 3000                             | 12000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 5/19   | Ø35           | 5                        | 3000                          | 19                                 | 0.059                              | 6800                             | 27200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 8/16   | Ø35           | 8                        | 3200                          | 16                                 | 0.067                              | 2200                             | 8800                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 8/16   | Ø35           | 8                        | 3200                          | 16                                 | 0.075                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 10/15  | Ø35           | 10                       | 3200                          | 15                                 | 0.075                              | 2200                             | 8800                             |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 10/15  | Ø35           | 10                       | 3200                          | 15                                 | 0.082                              | 5200                             | 20800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 0.5/40 | Ø40           | 0.5                      | 2600                          | 40                                 | 0.009                              | 4700                             | 18800                            | 12.0             | -40 ~ +200                           | ✓              | ✓   | ✓   |
| MF73T-2 0.5/40 | Ø40           | 0.5                      | 2600                          | 40                                 | 0.014                              | 16000                            | 64000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 1/40   | Ø40           | 1                        | 2600                          | 40                                 | 0.017                              | 4700                             | 18800                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 1/40   | Ø40           | 1                        | 2600                          | 40                                 | 0.022                              | 14000                            | 56000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 2/32   | Ø40           | 2                        | 2600                          | 32                                 | 0.023                              | 4700                             | 18800                            |                  |                                      |                | ✓   | ✓   |
| MF73T-2 2/32   | Ø40           | 2                        | 2600                          | 32                                 | 0.028                              | 14000                            | 56000                            |                  |                                      |                | ✓   | ✓   |
| MF73T-1 3/28   | Ø40           | 3                        | 2800                          | 28                                 | 0.027                              | 3300                             | 13200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 3/28   | Ø40           | 3                        | 2800                          | 28                                 | 0.035                              | 14000                            | 56000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 5/25   | Ø40           | 5                        | 3000                          | 25                                 | 0.036                              | 3300                             | 13200                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 5/25   | Ø40           | 5                        | 3000                          | 25                                 | 0.042                              | 11000                            | 44000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-1 8/20   | Ø40           | 8                        | 3200                          | 20                                 | 0.054                              | 3000                             | 12000                            |                  |                                      | ✓              | ✓   | ✓   |
| MF73T-2 8/20   | Ø40           | 8                        | 3200                          | 20                                 | 0.062                              | 11000                            | 44000                            |                  |                                      | ✓              | ✓   | ✓   |

| Part No.      | Body Diameter | R <sub>25</sub><br>± 20% | B Value<br>(25/50°C)<br>± 10% | Maximum<br>Steady-State<br>Current | Residual<br>Resistance<br>(Approx) | Max.<br>Capacitance<br>@ 240 Vac | Max.<br>Capacitance<br>@ 120 Vac | P <sub>max</sub> | Operating<br>Temperature<br>Range    | Certifications |     |     |
|---------------|---------------|--------------------------|-------------------------------|------------------------------------|------------------------------------|----------------------------------|----------------------------------|------------------|--------------------------------------|----------------|-----|-----|
|               | mm            | Ω                        | K                             | A                                  | Ω                                  | μF                               | μF                               | W                | T <sub>L</sub> ~ T <sub>u</sub> (°C) | UL / cUL       | TÜV | CQC |
| MF73T-1 10/19 | Ø40           | 10                       | 3200                          | 19                                 | 0.060                              | 3000                             | 12000                            | 12.0             | -40 ~ +200                           | √              | √   | √   |
| MF73T-2 10/19 | Ø40           | 10                       | 3200                          | 19                                 | 0.067                              | 9000                             | 36000                            |                  |                                      | √              | √   | √   |

## Notes:

1. Lead wire Material: Tinned copper wire
2. Coating Material: Black silicon resin
3. UL / cUL Certificate No.: E241319  
TÜV Certificate No.: R 50245892  
CQC Certificate No.: CQC10001053047
4. For special requirements, please contact our sales representative.

## Current Derating Curve



### Example:

Ambient temperature (T<sub>a</sub>) = -10°C

Minimum operating temperature (T<sub>L</sub>) = -40°C

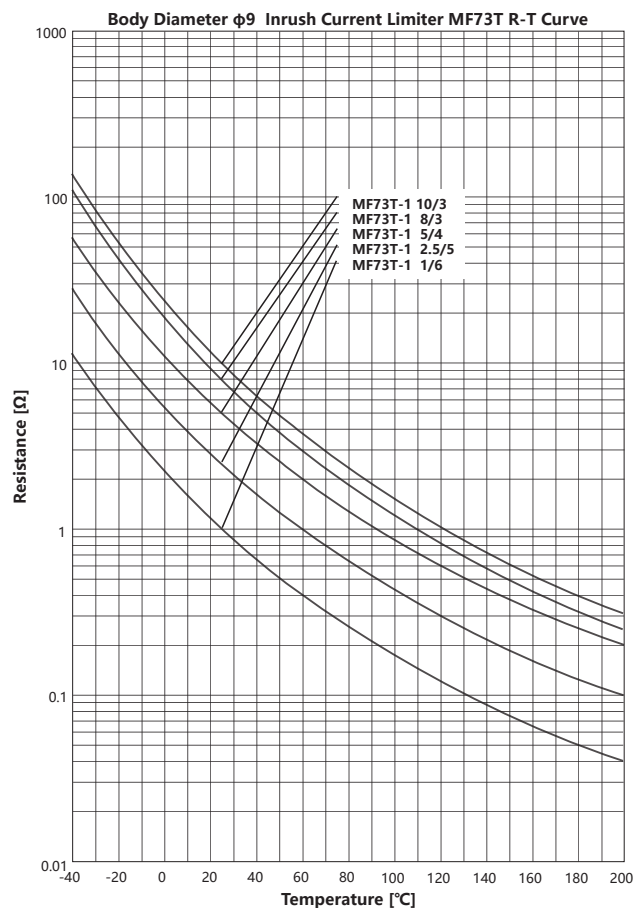
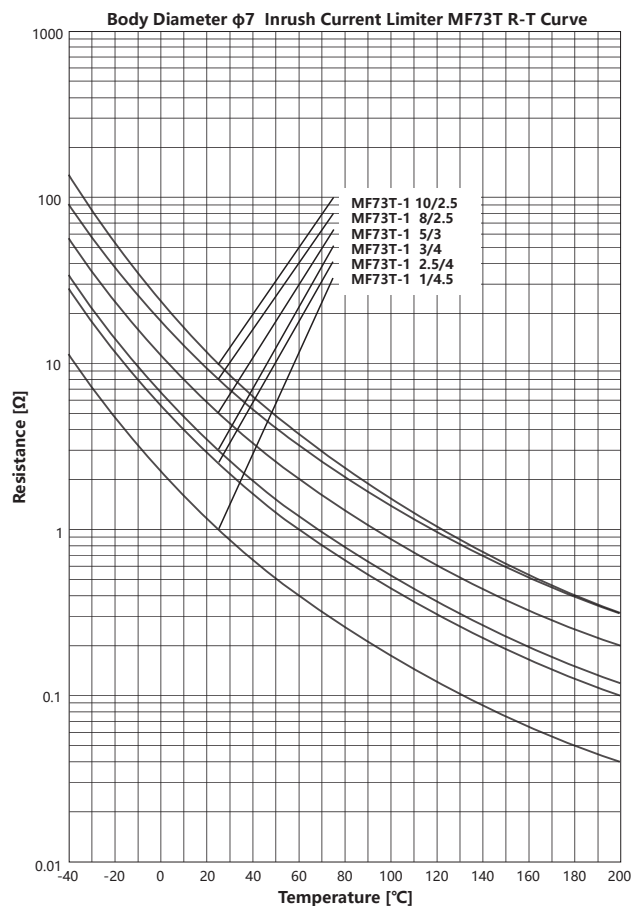
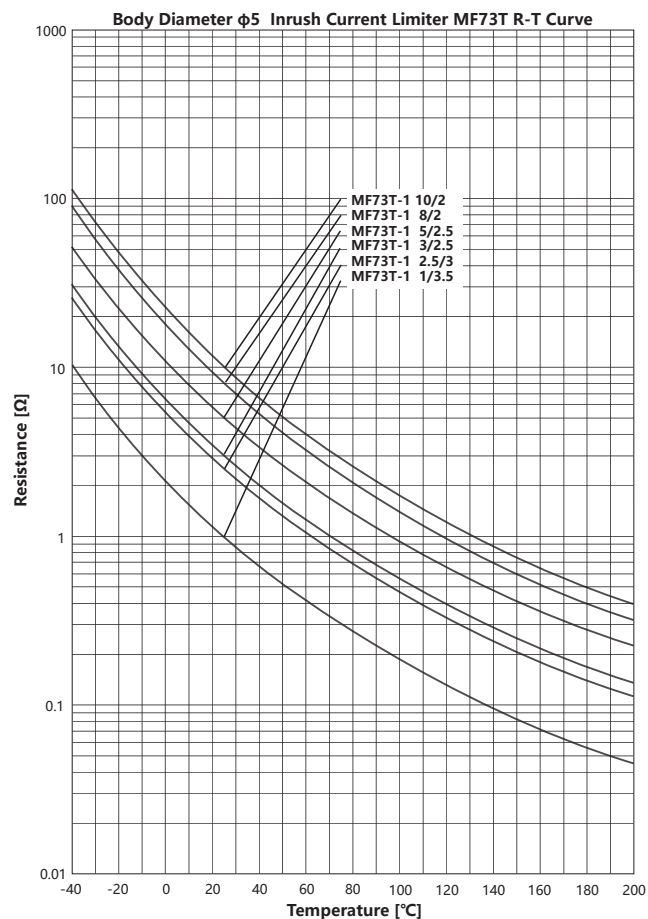
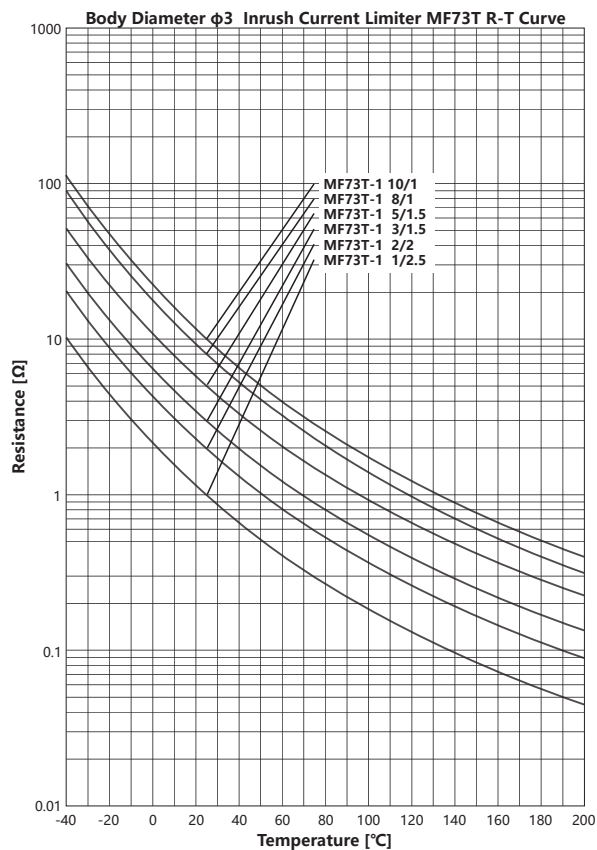
$$I_{Ta} = \frac{T_L - T_a}{T_L - 0} \times I_{max} = 75\% I_{max}$$

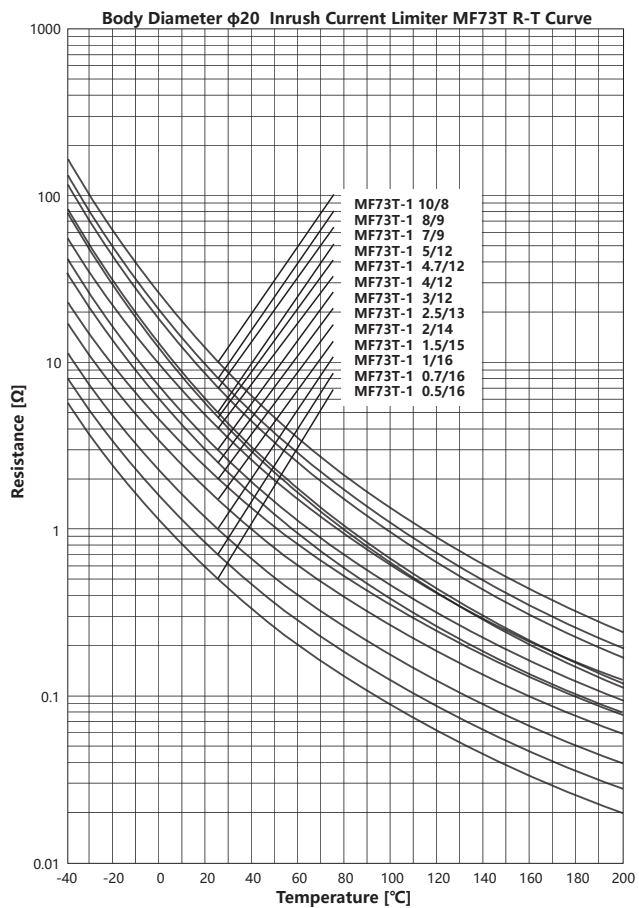
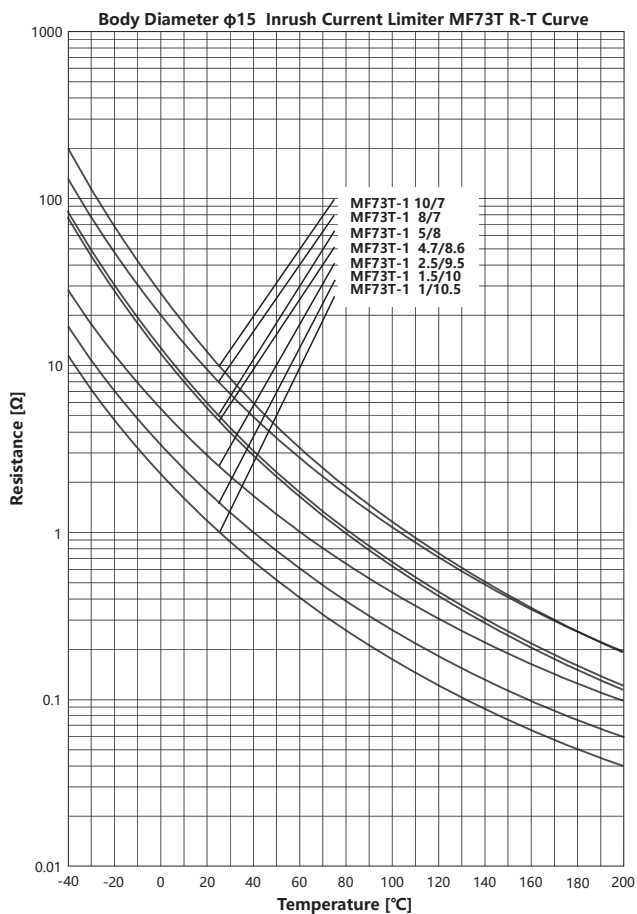
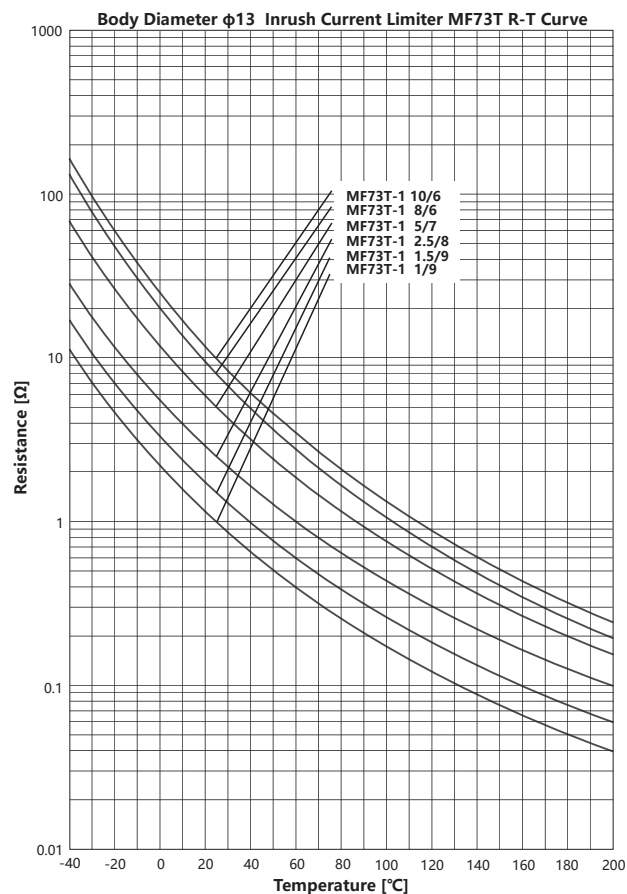
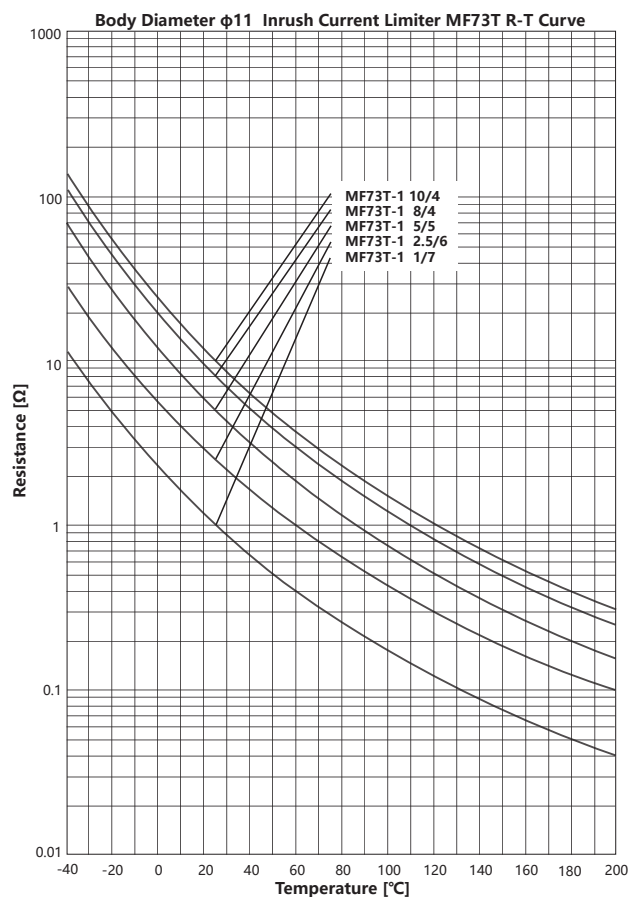
Ambient temperature (T<sub>a</sub>) = 55°C

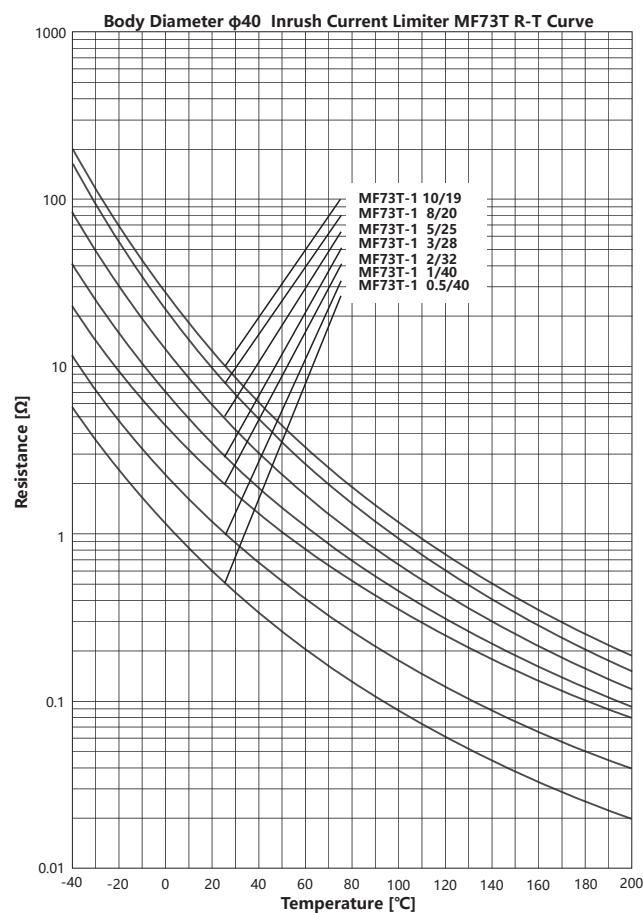
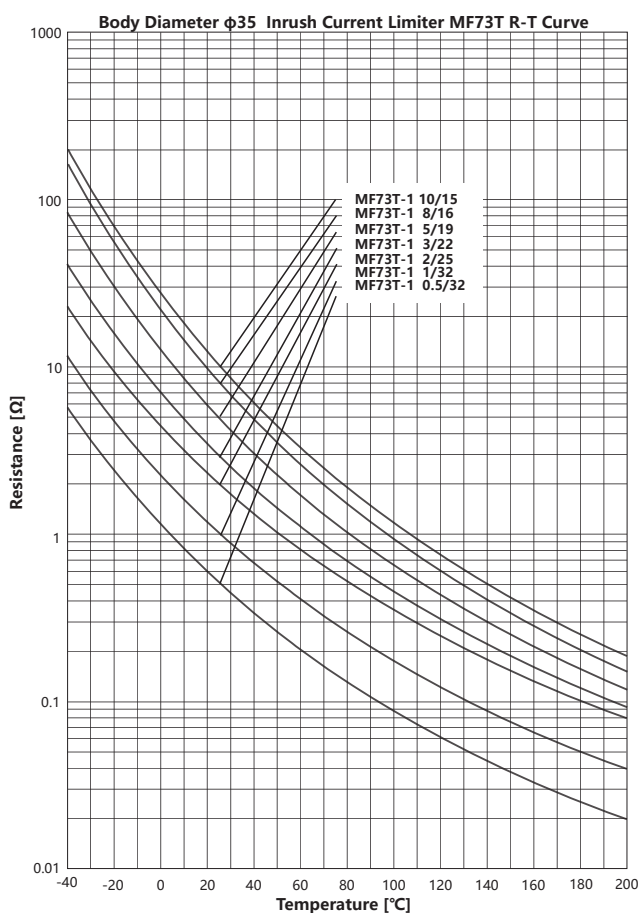
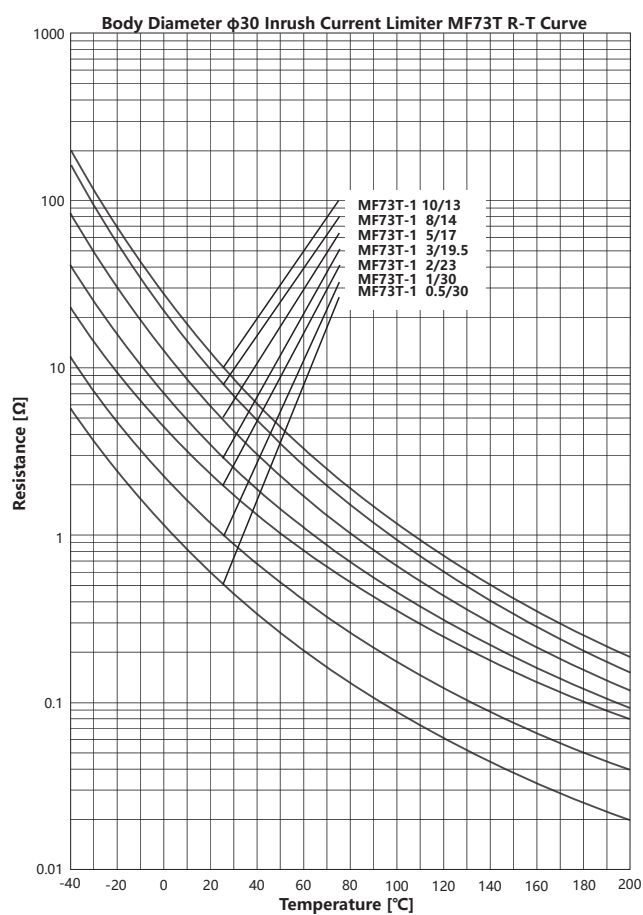
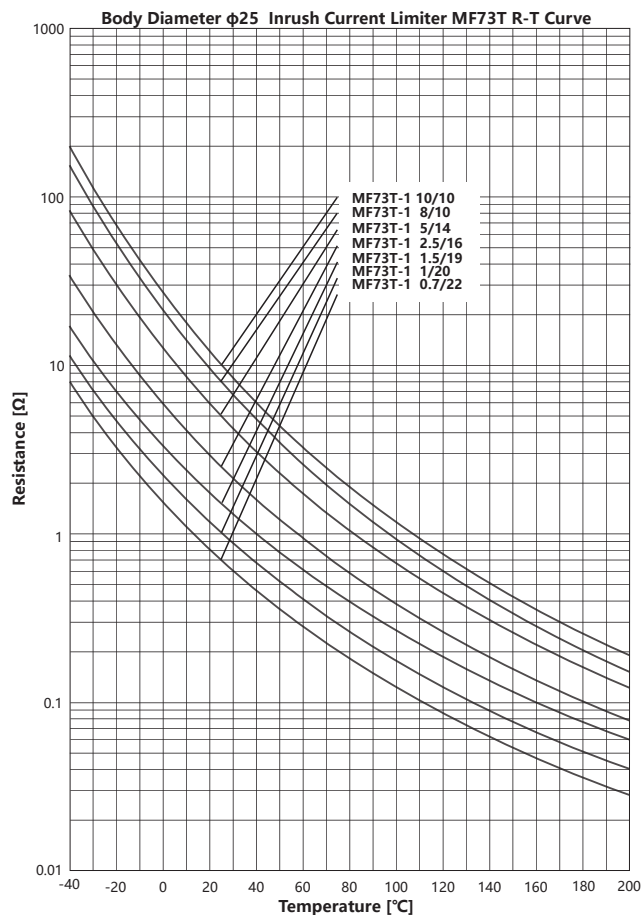
Maximum operating temperature (T<sub>u</sub>) = 200°C

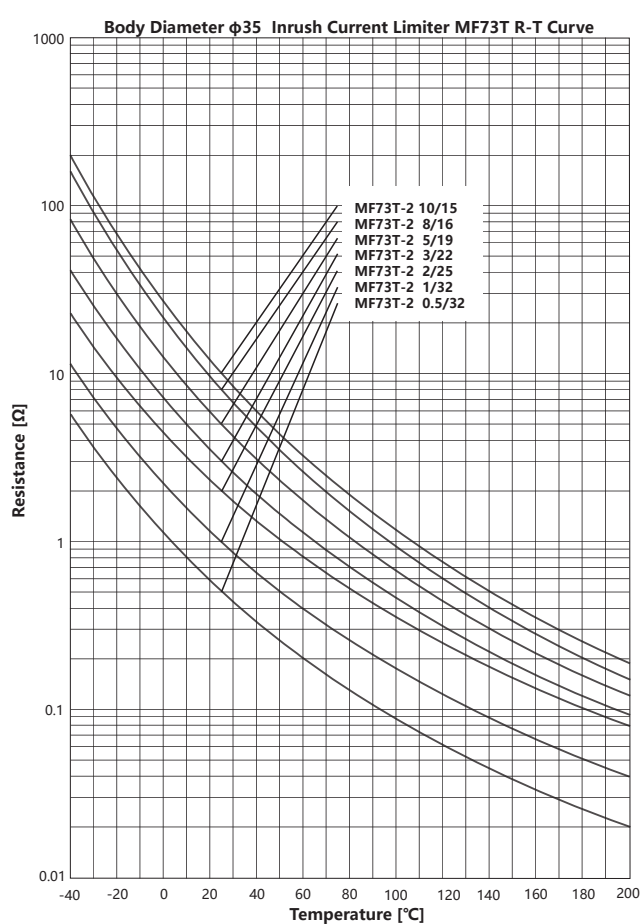
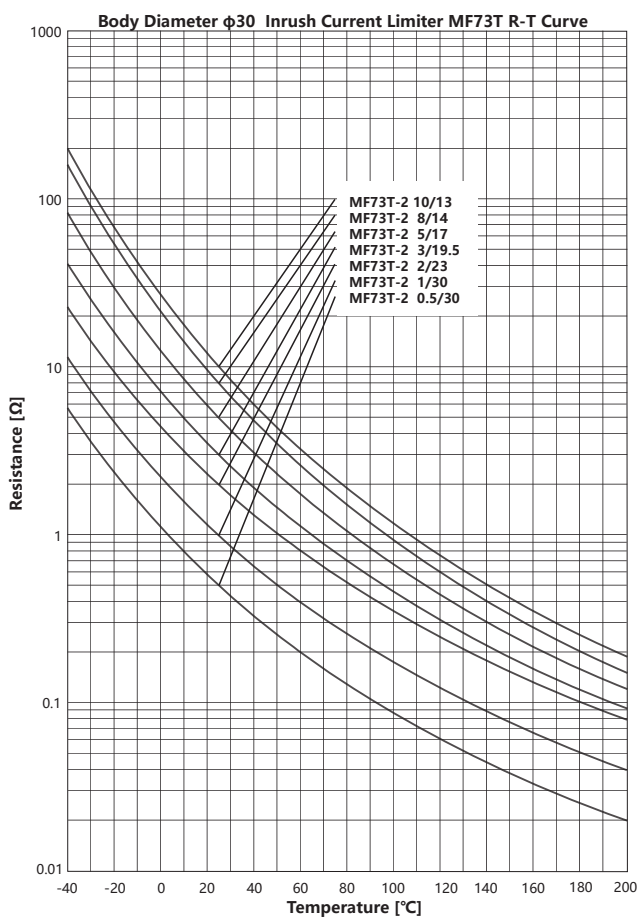
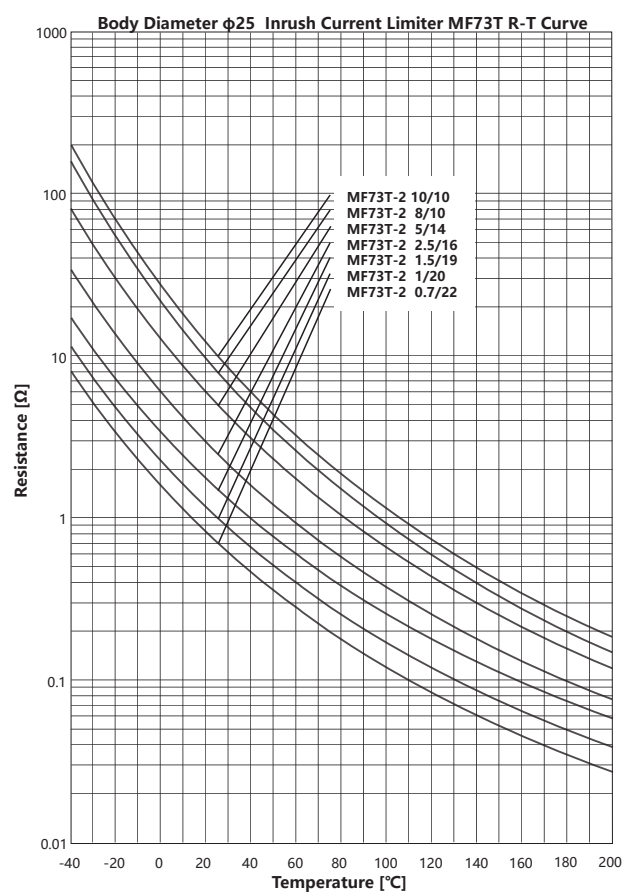
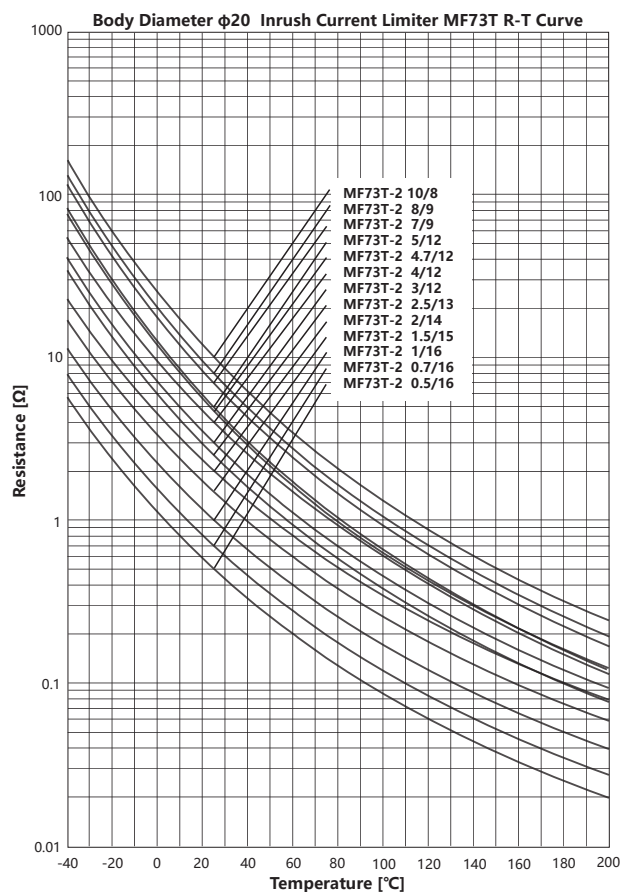
$$I_{Ta} = \frac{T_u - T_a}{T_u - 25} \times I_{max} = 83\% I_{max}$$

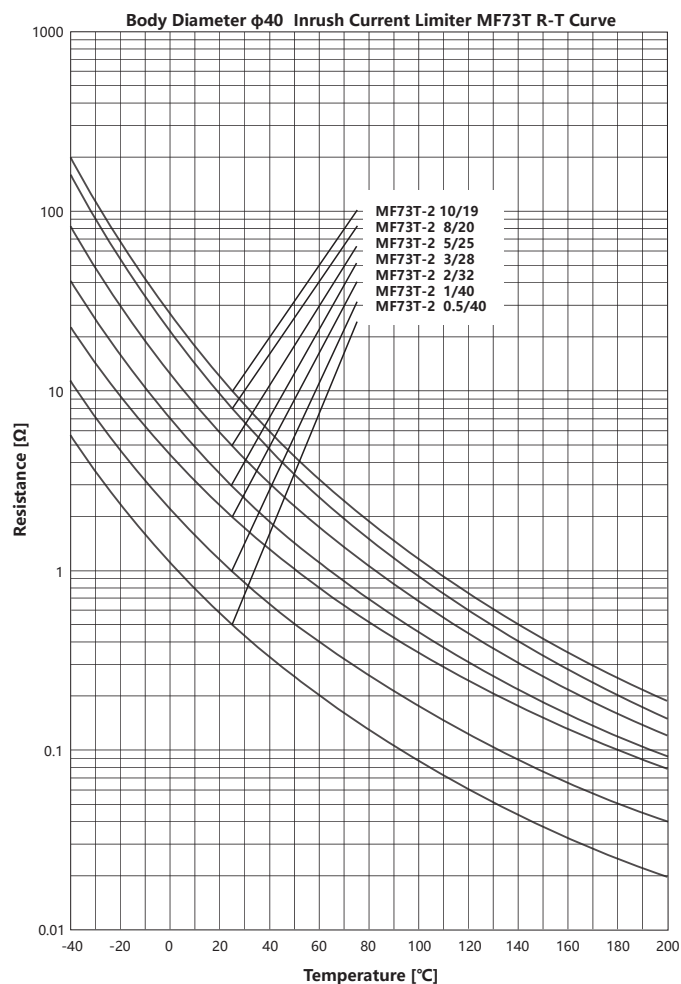
## R-T characteristic Curves



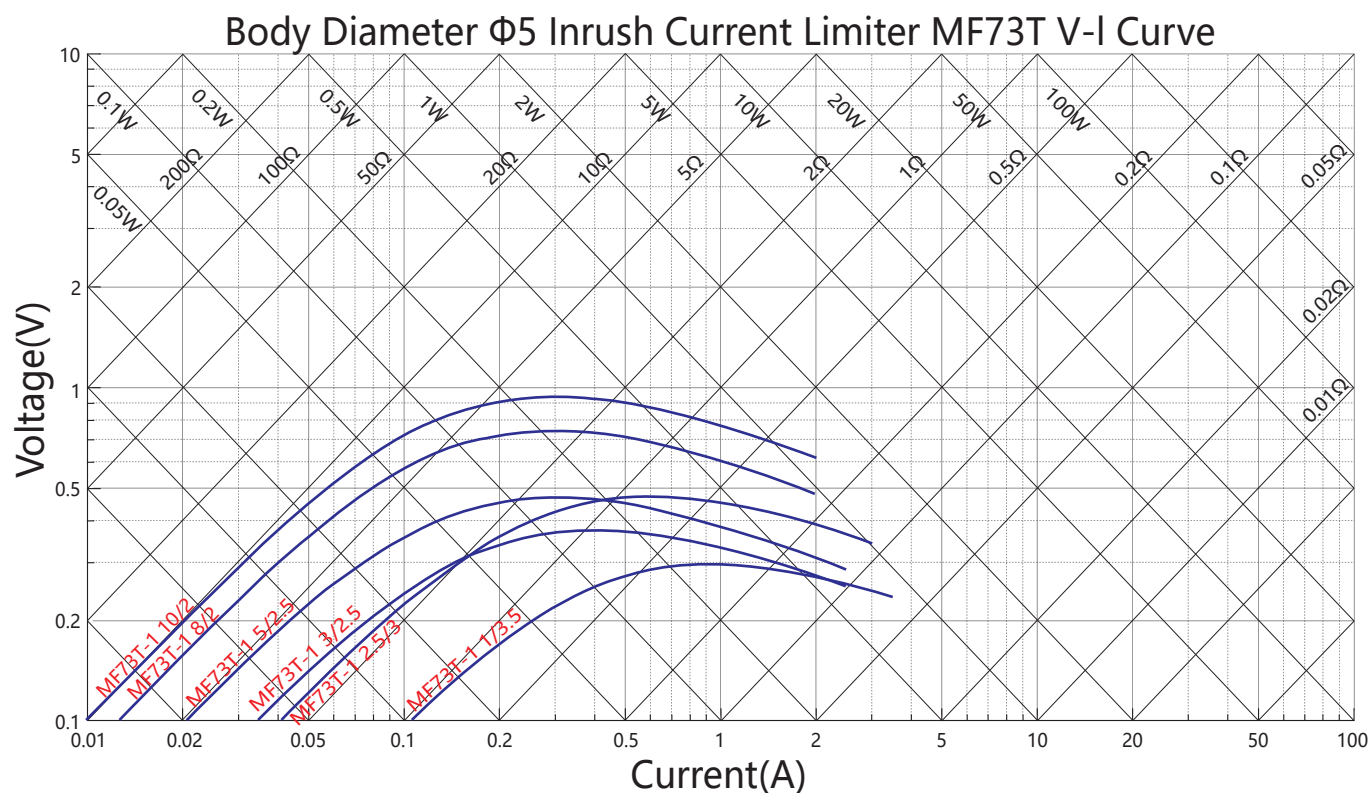
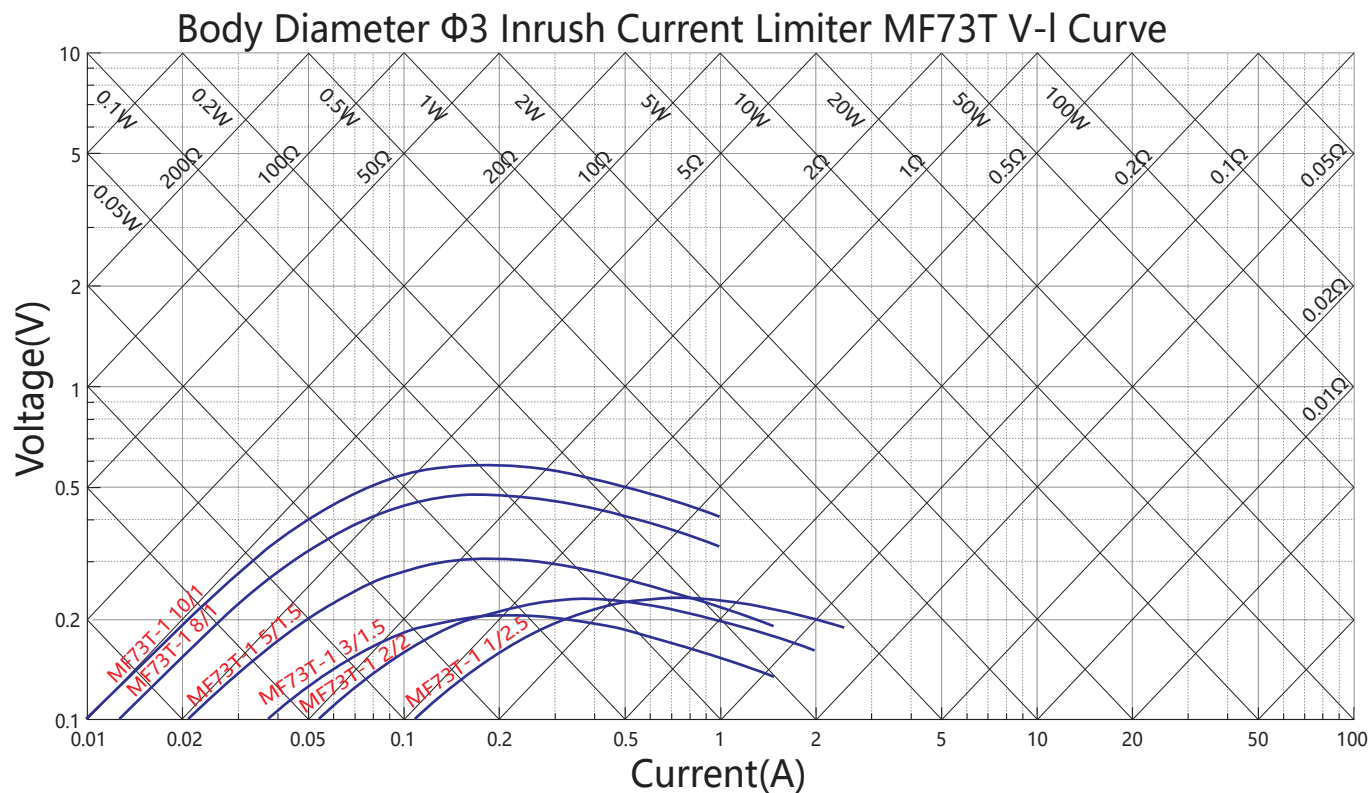


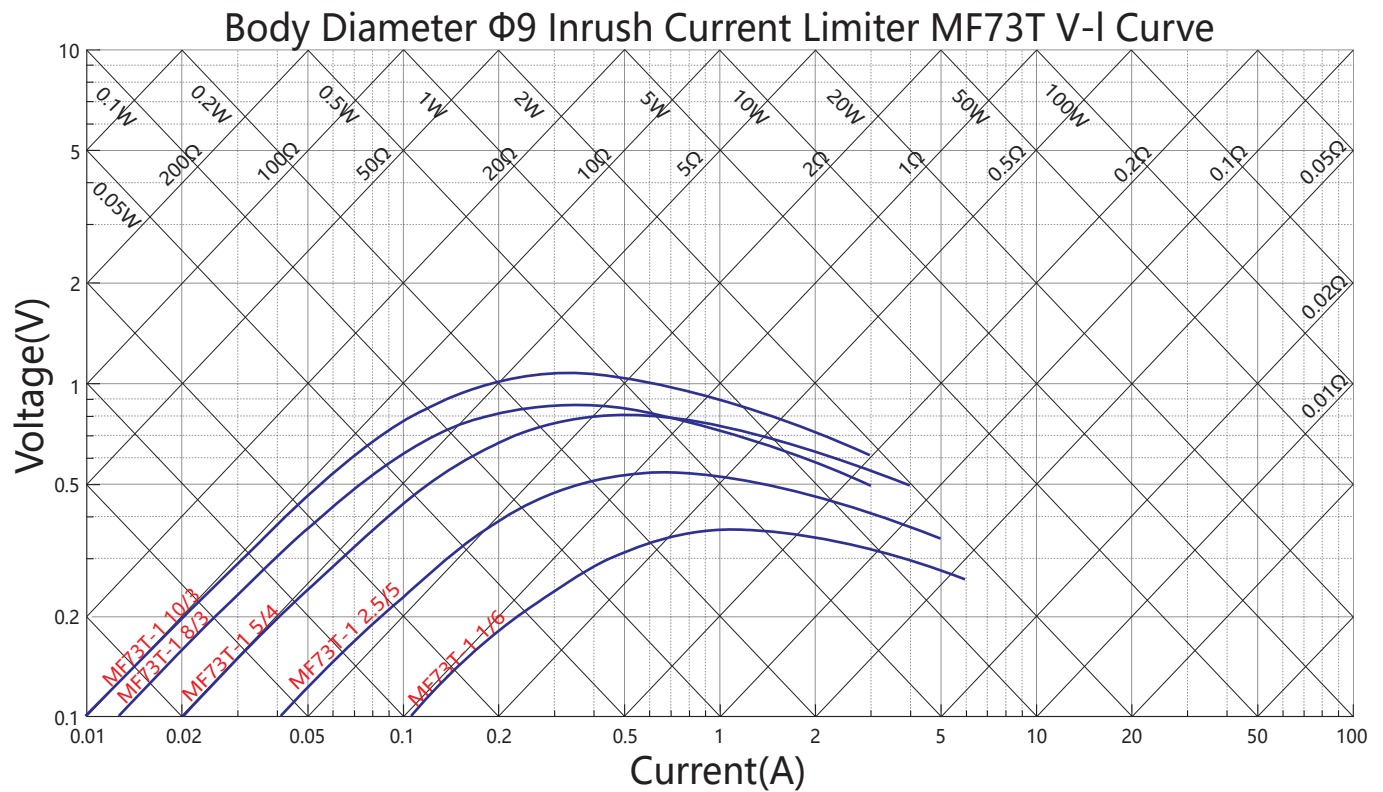
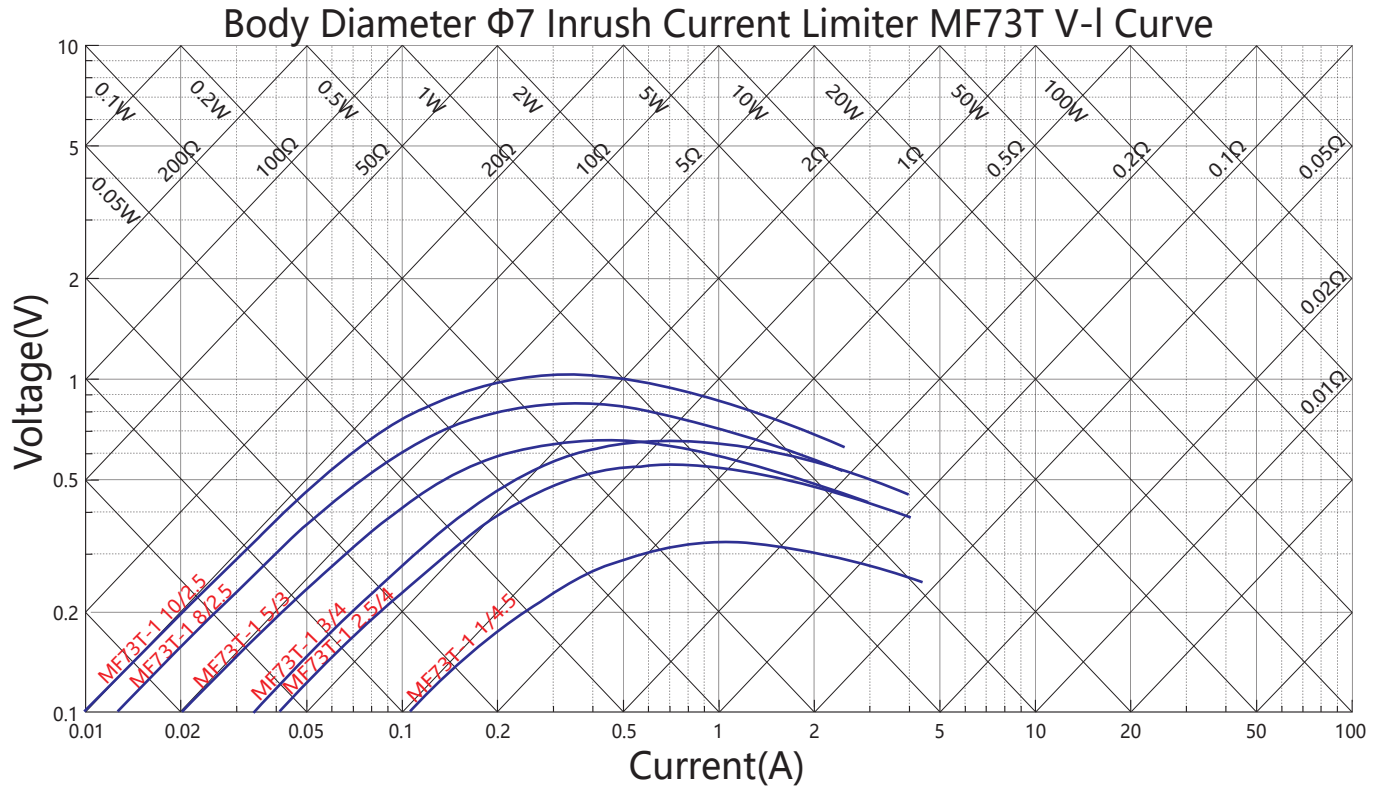


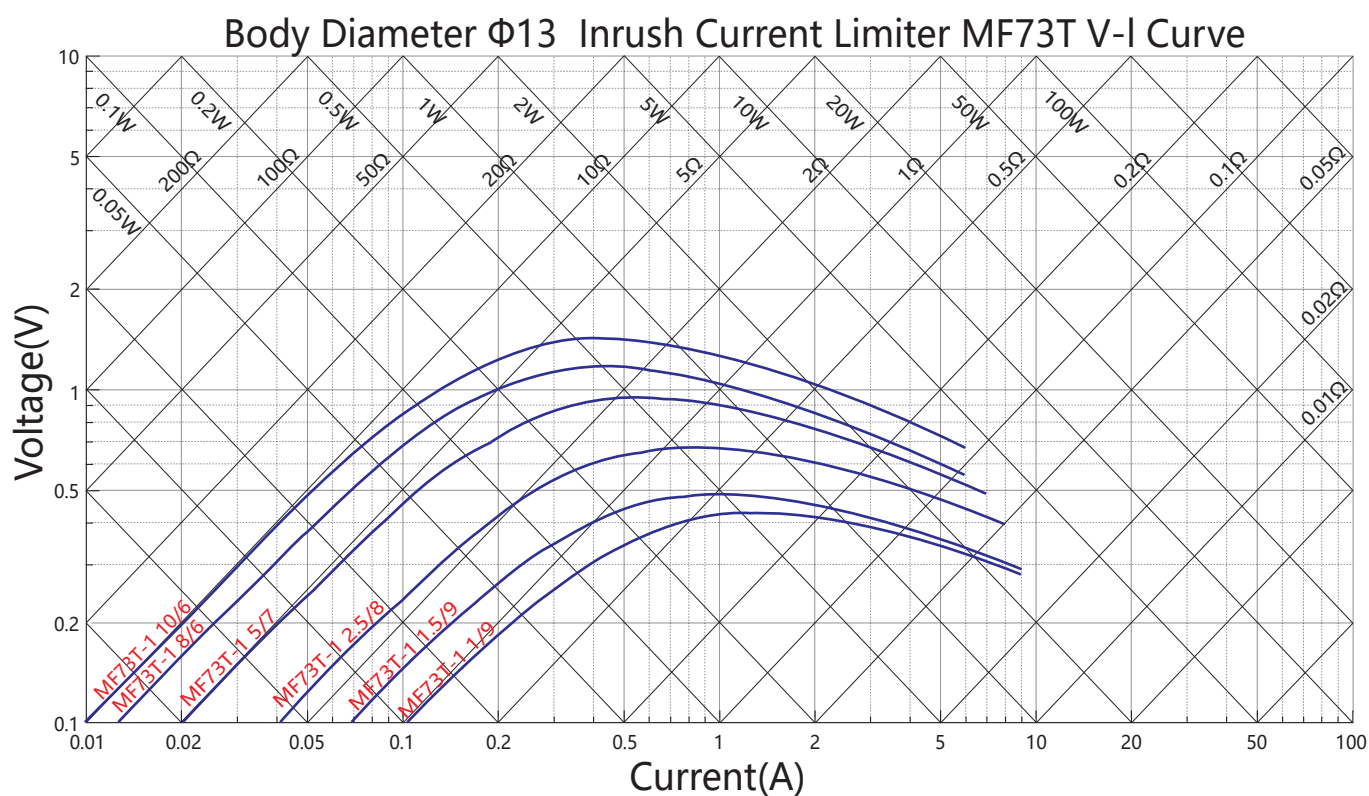
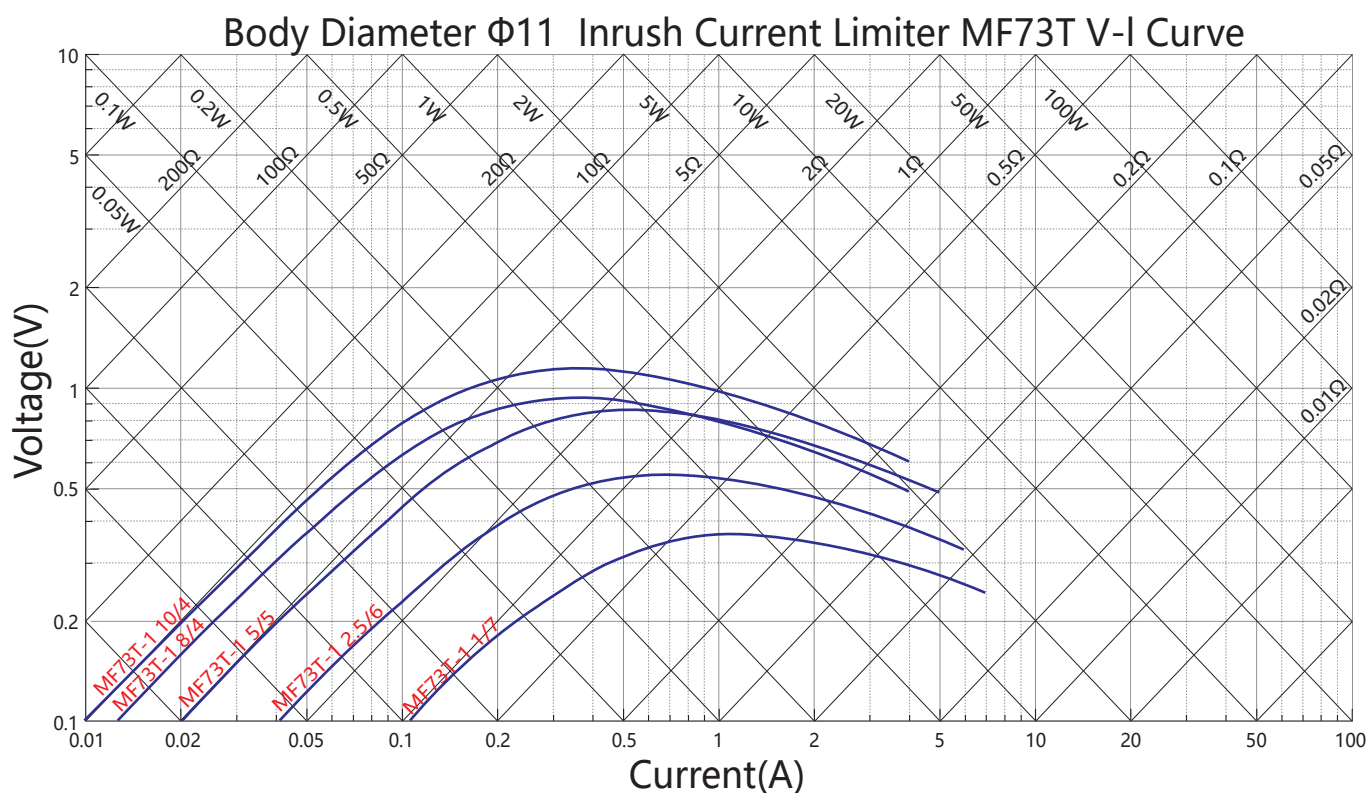


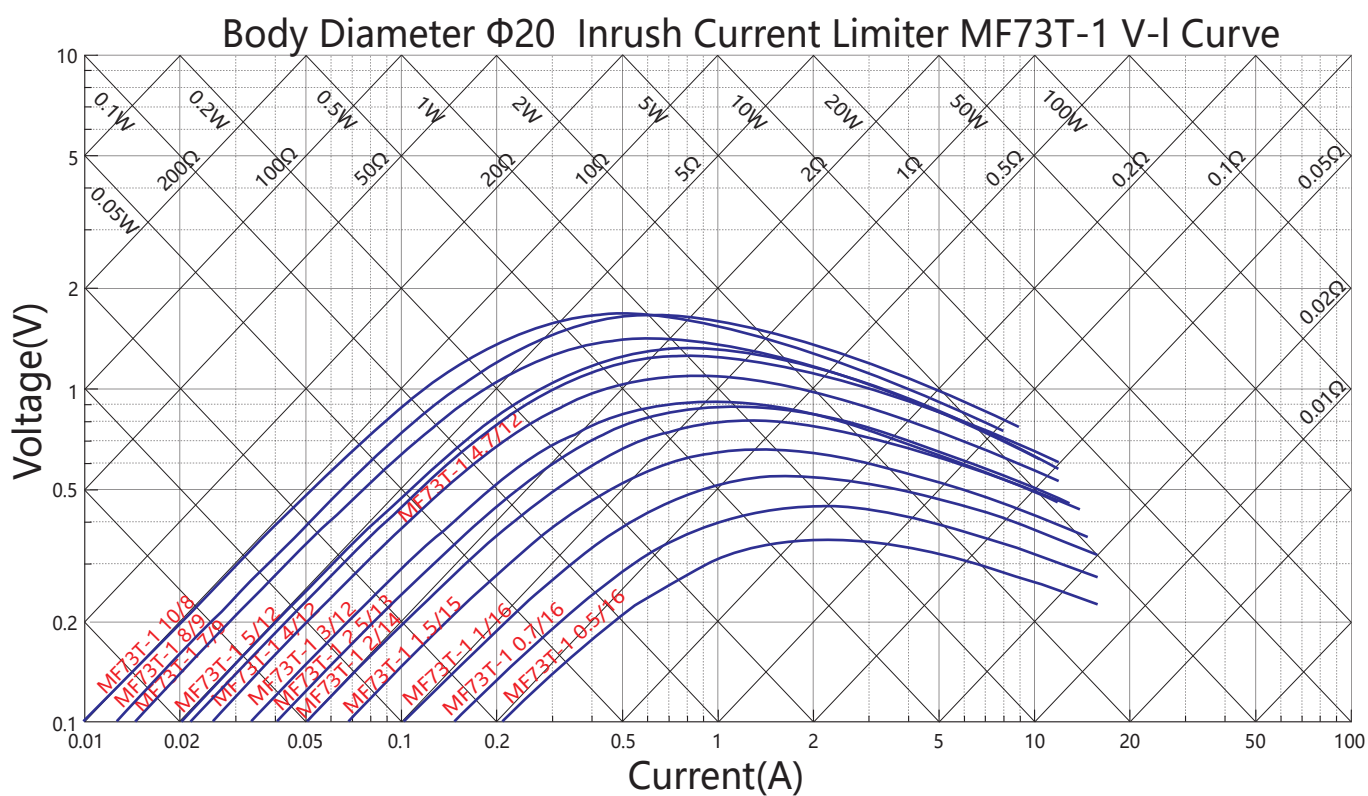
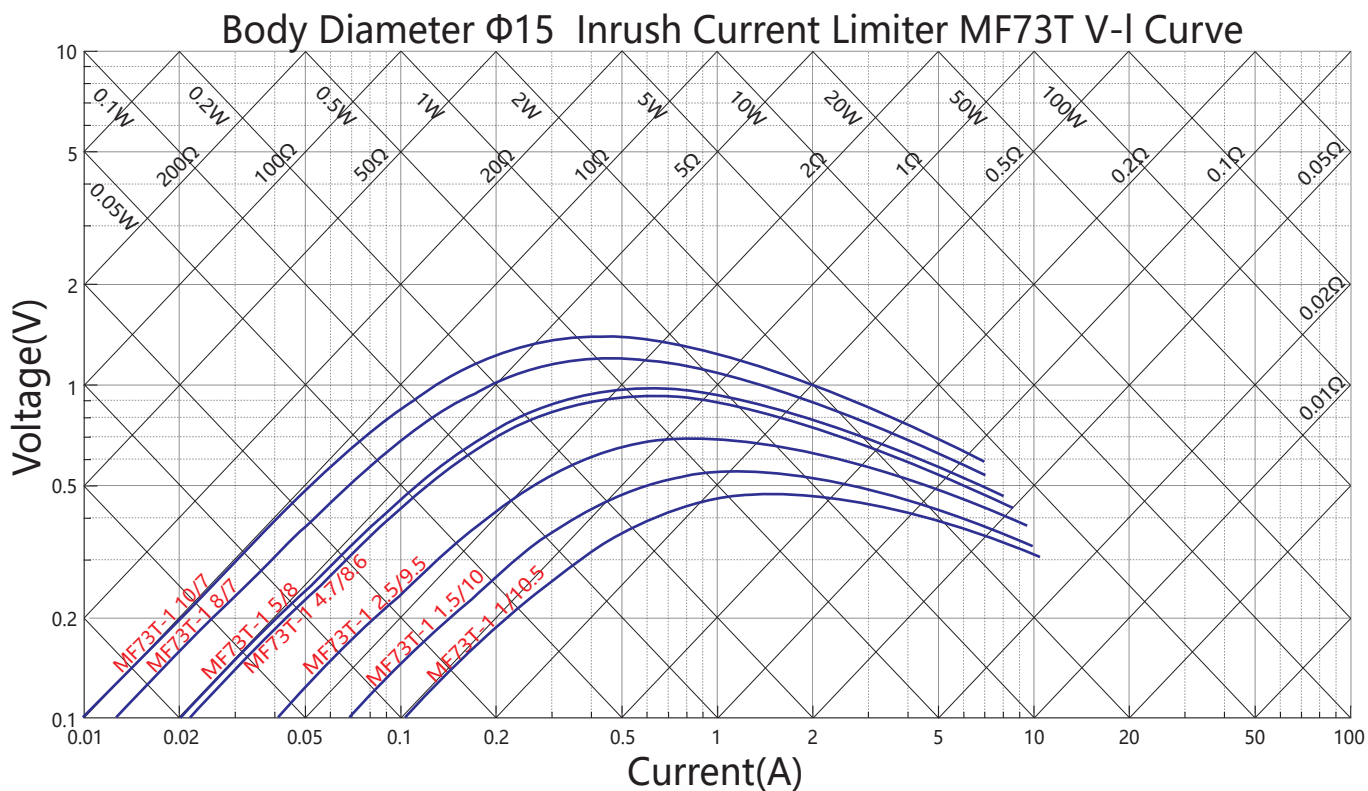


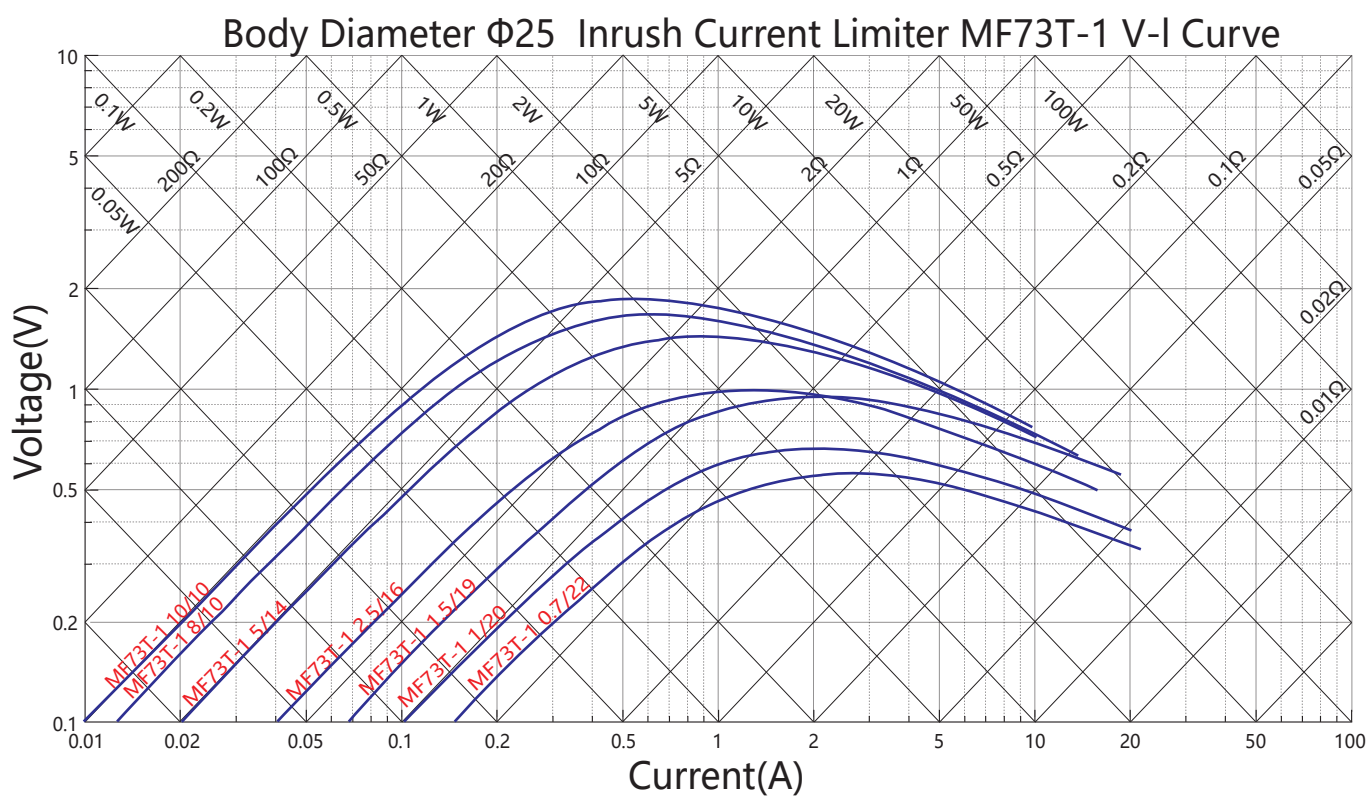
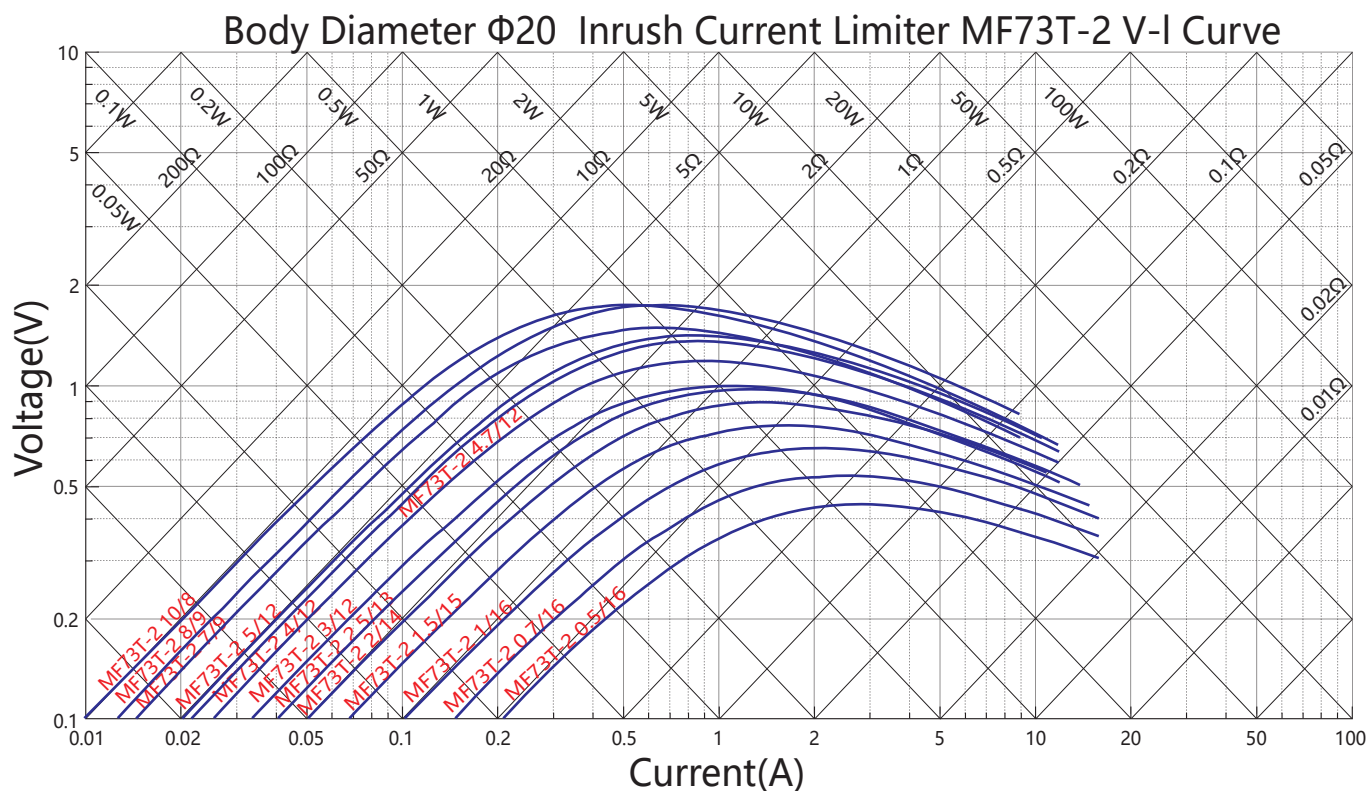
## V-I Characteristics Curve

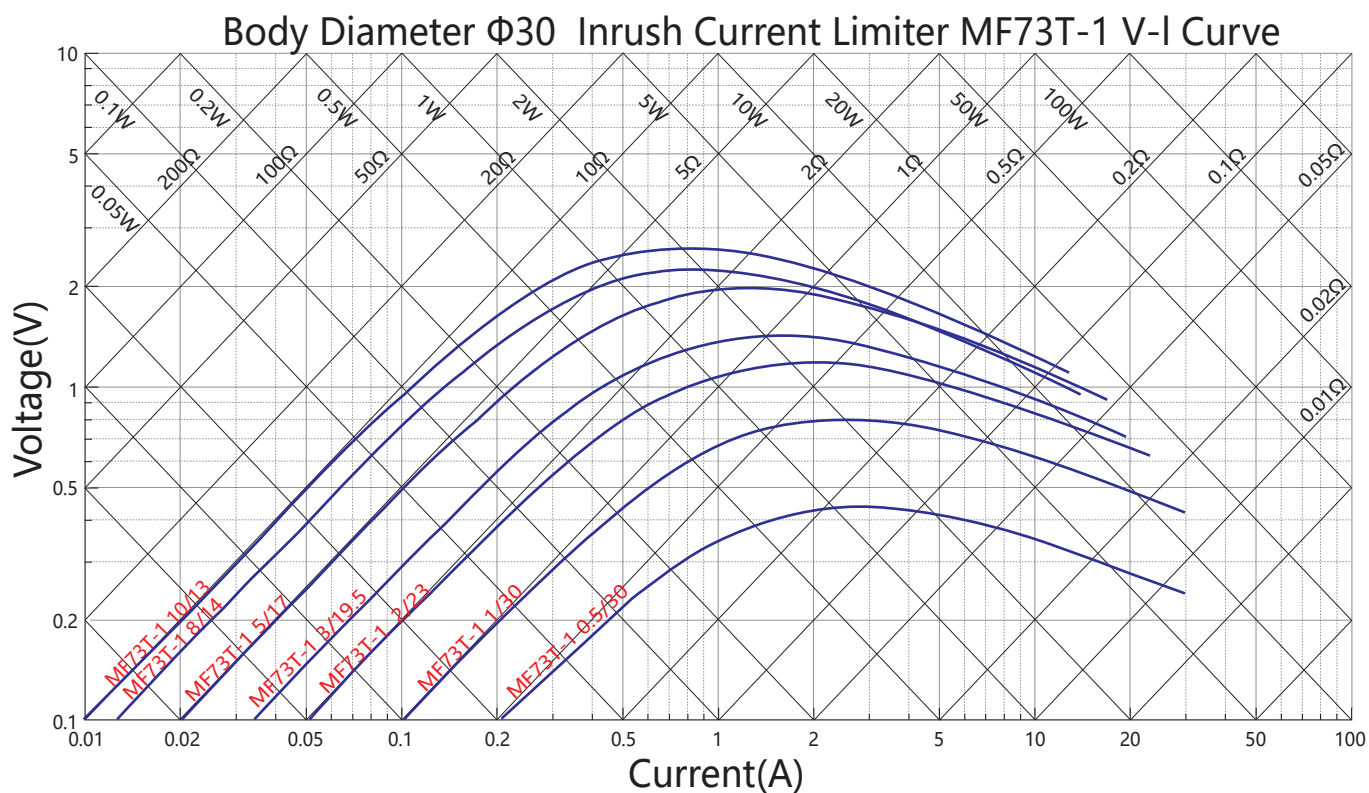
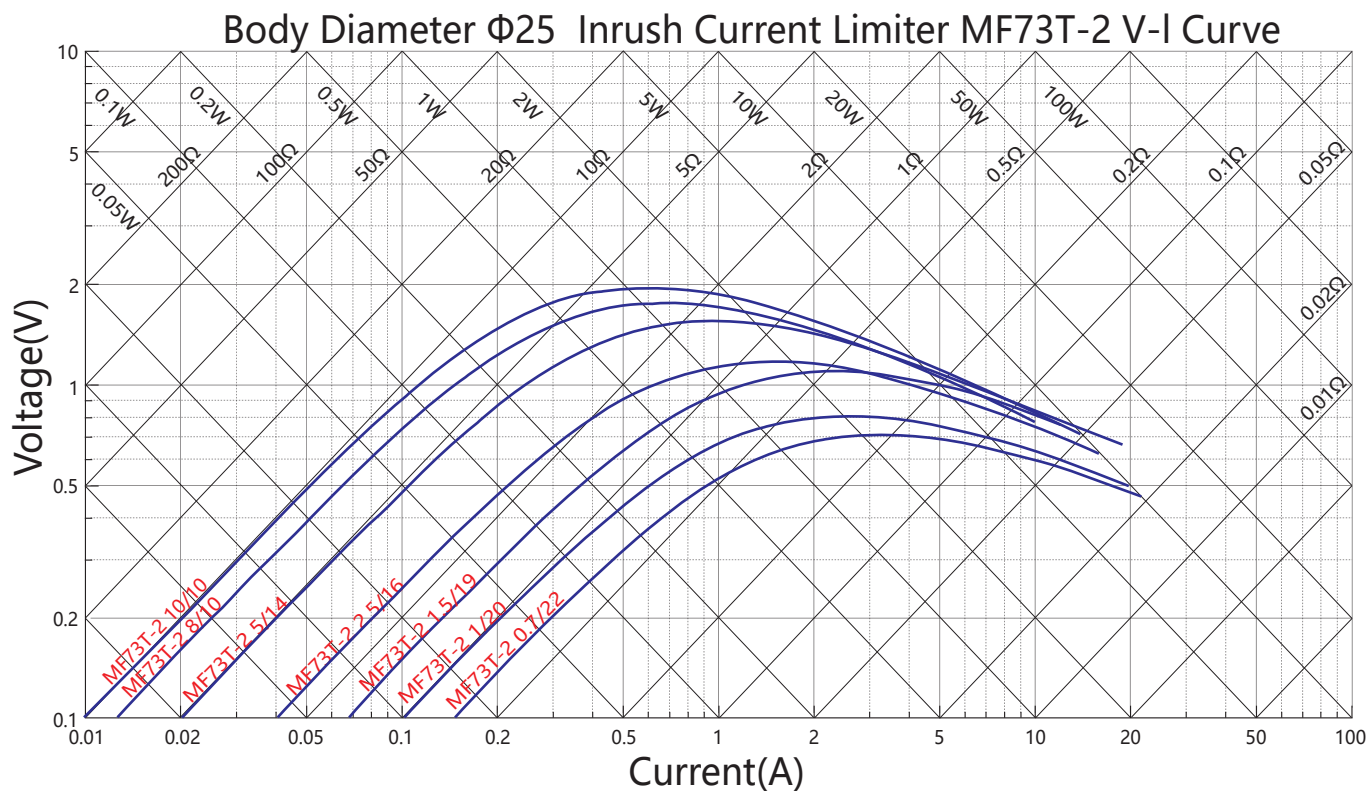


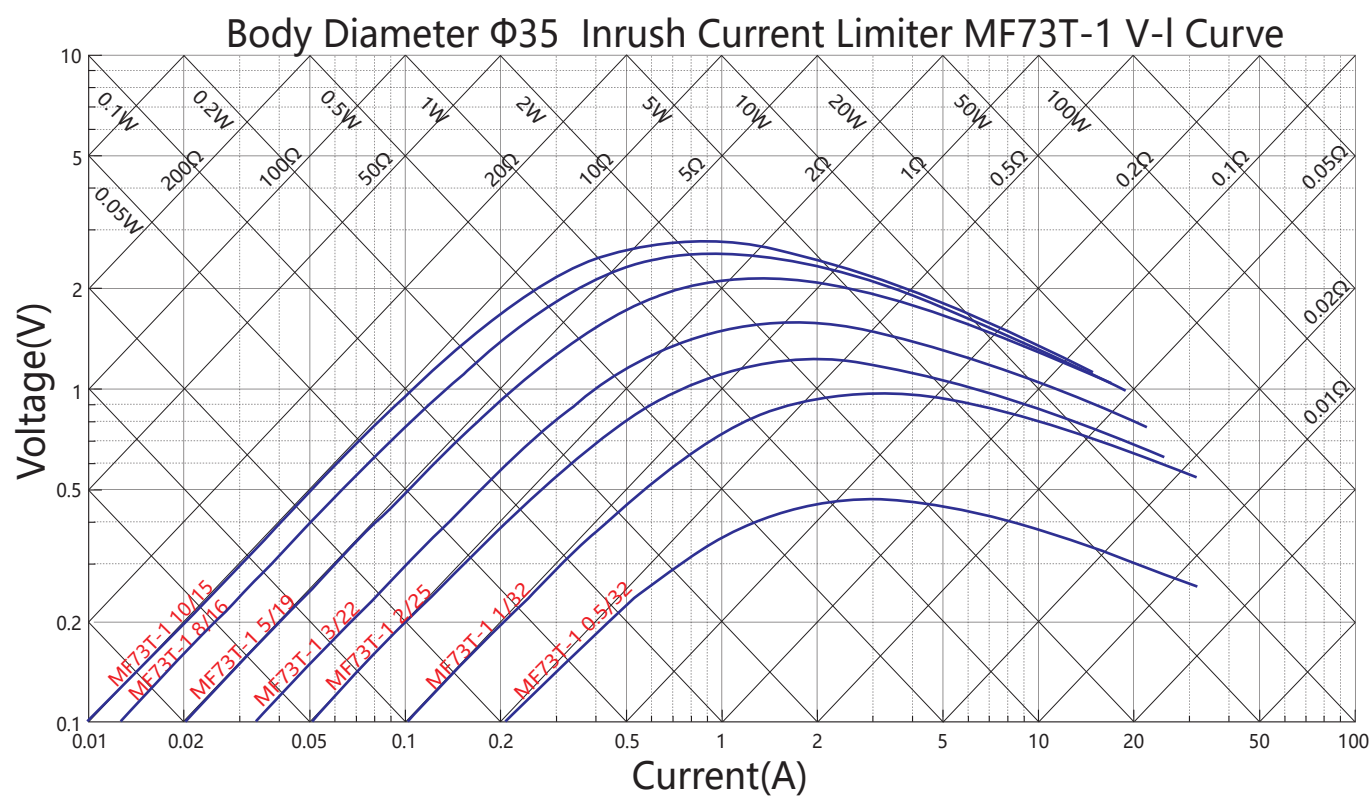
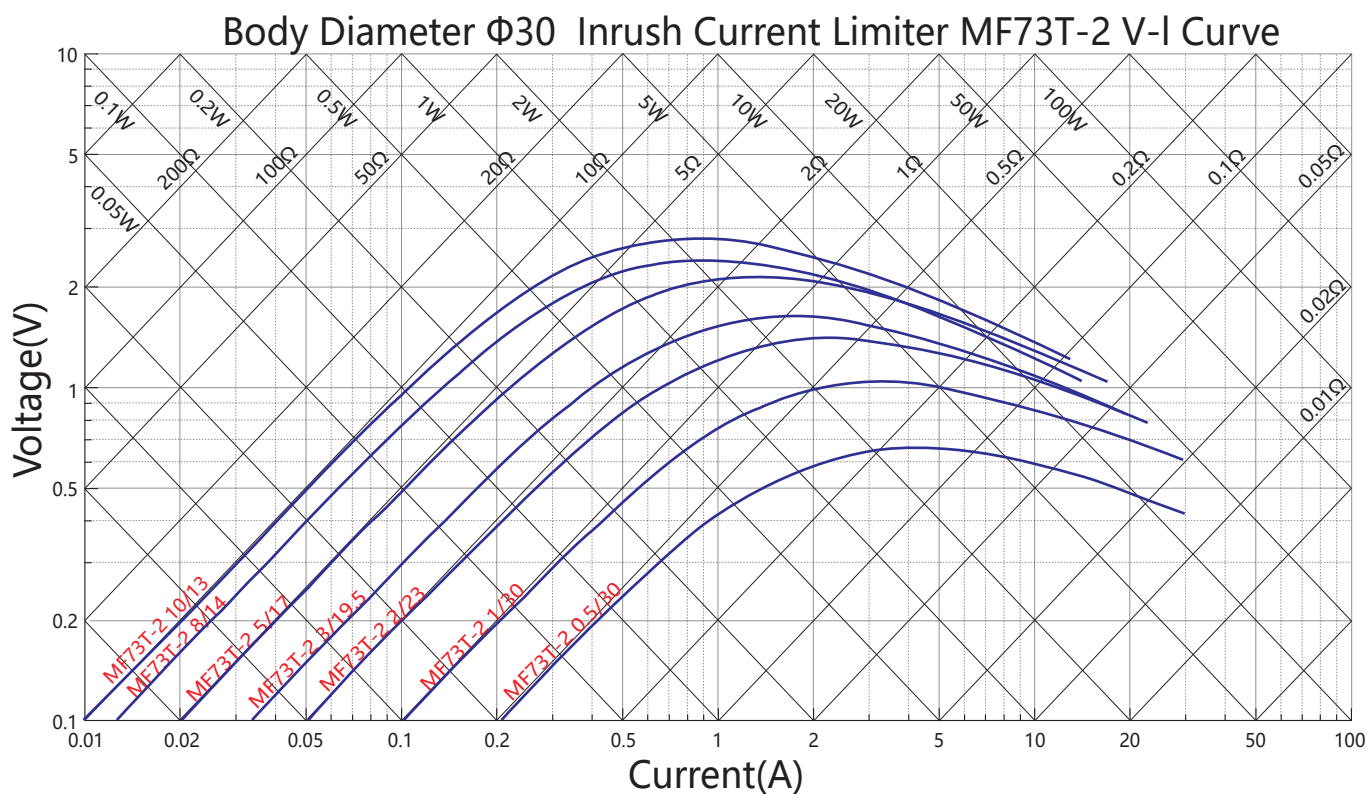




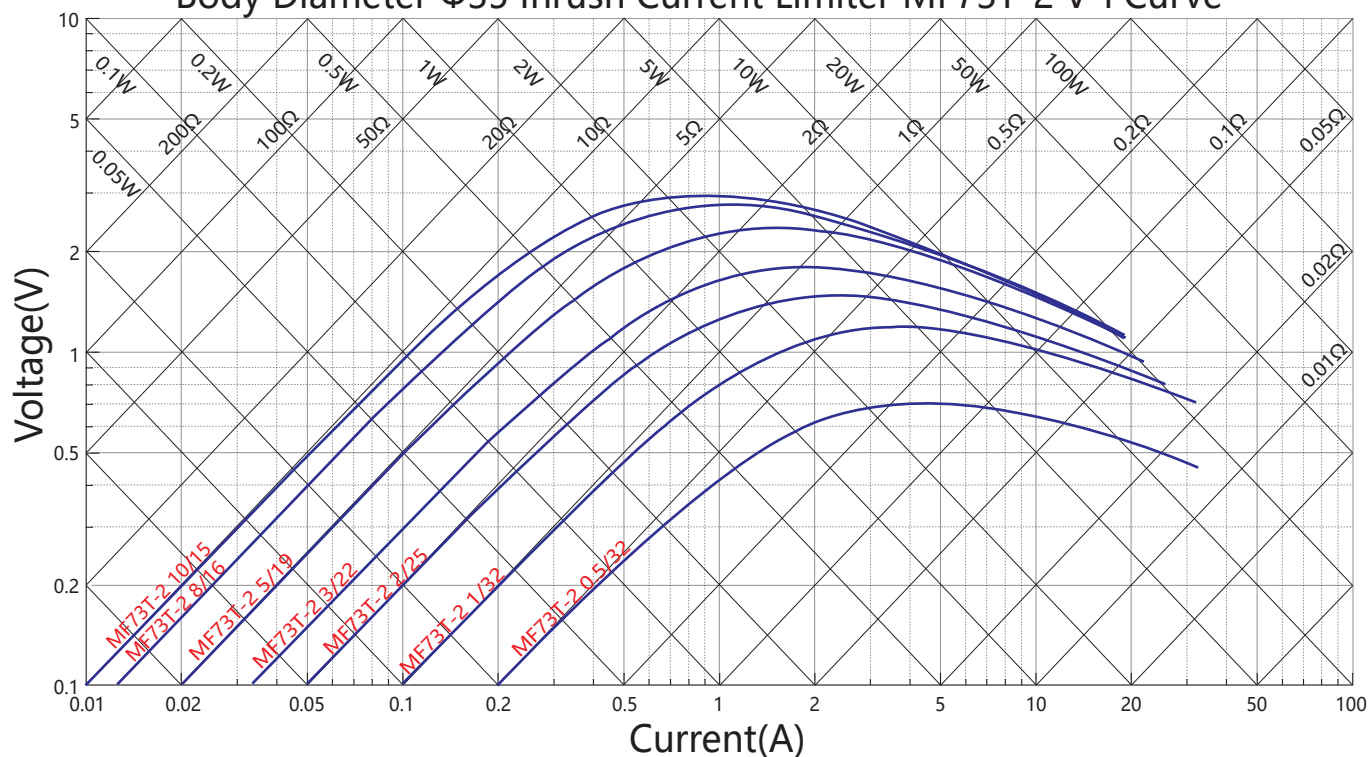




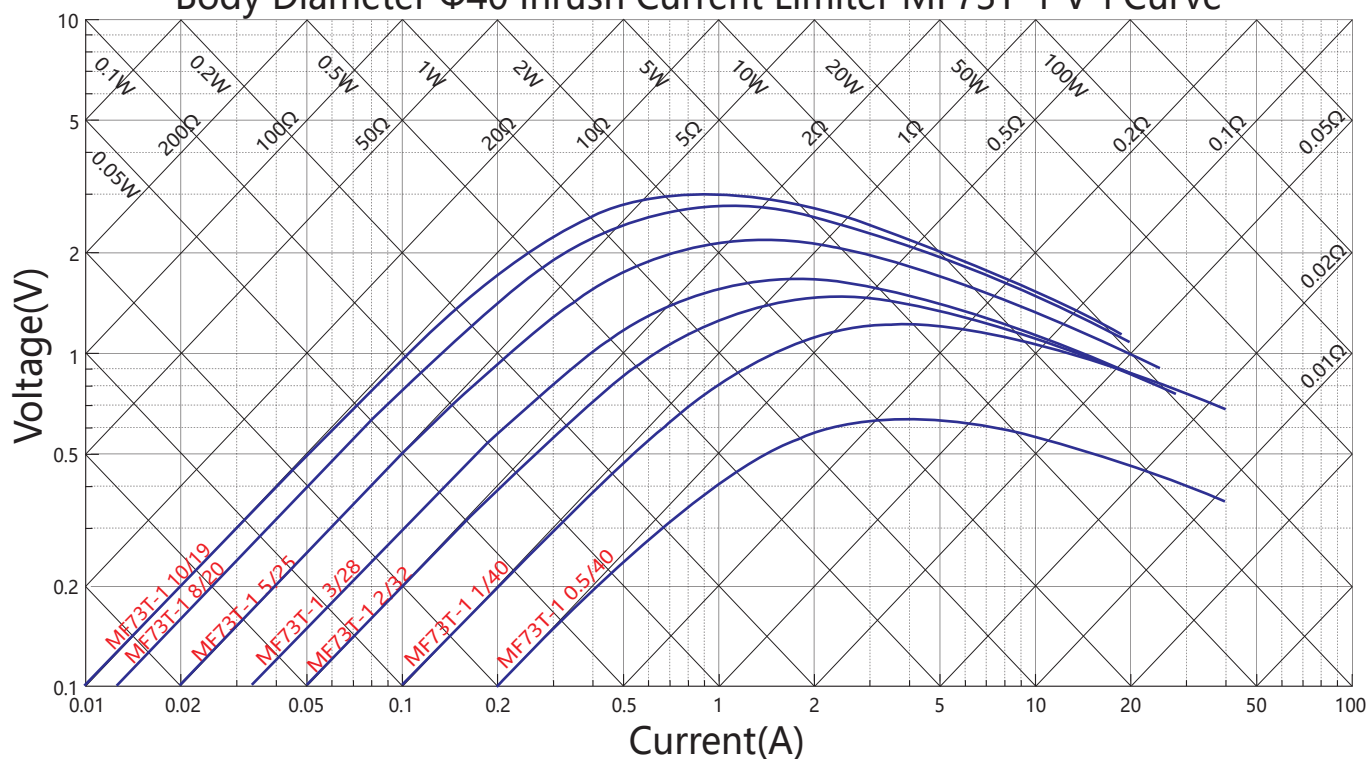


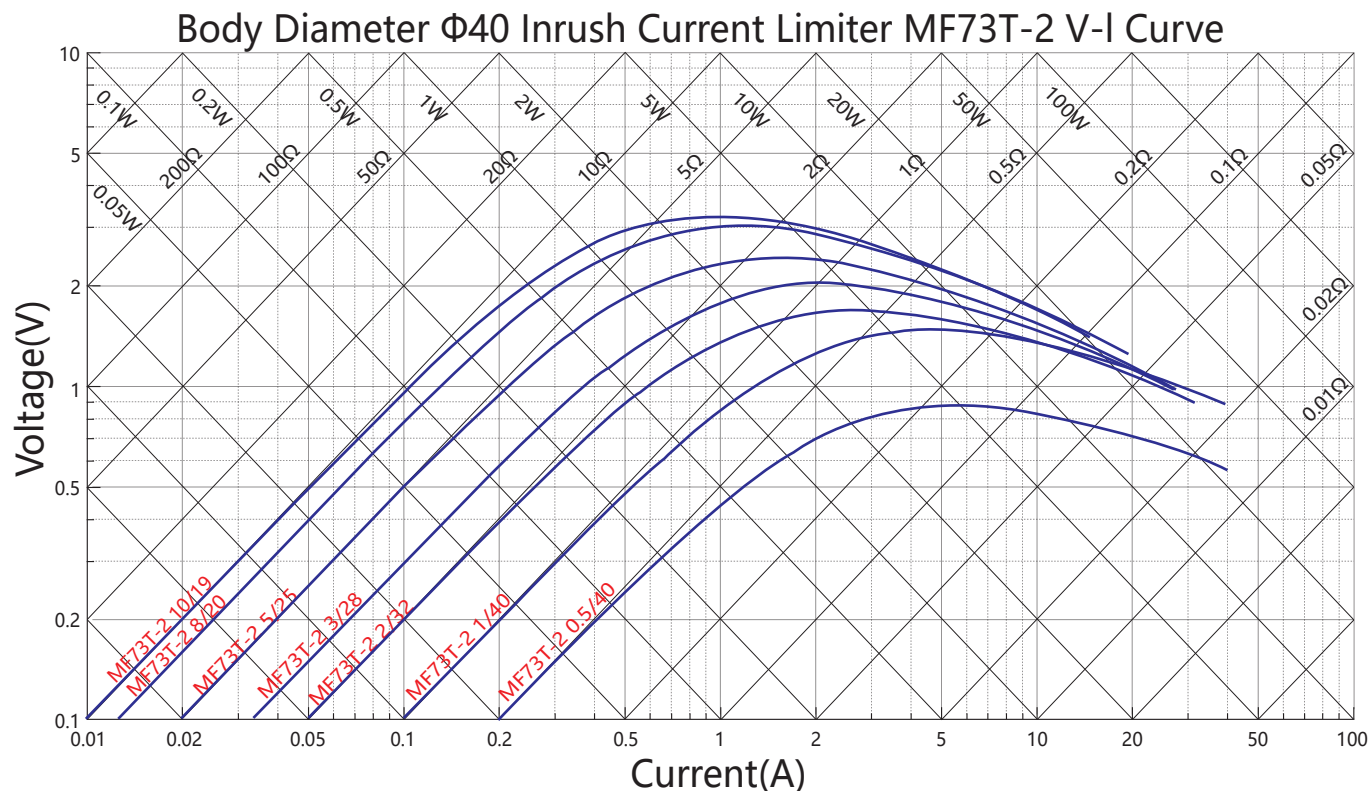


Body Diameter  $\Phi 35$  Inrush Current Limiter MF73T-2 V-I Curve

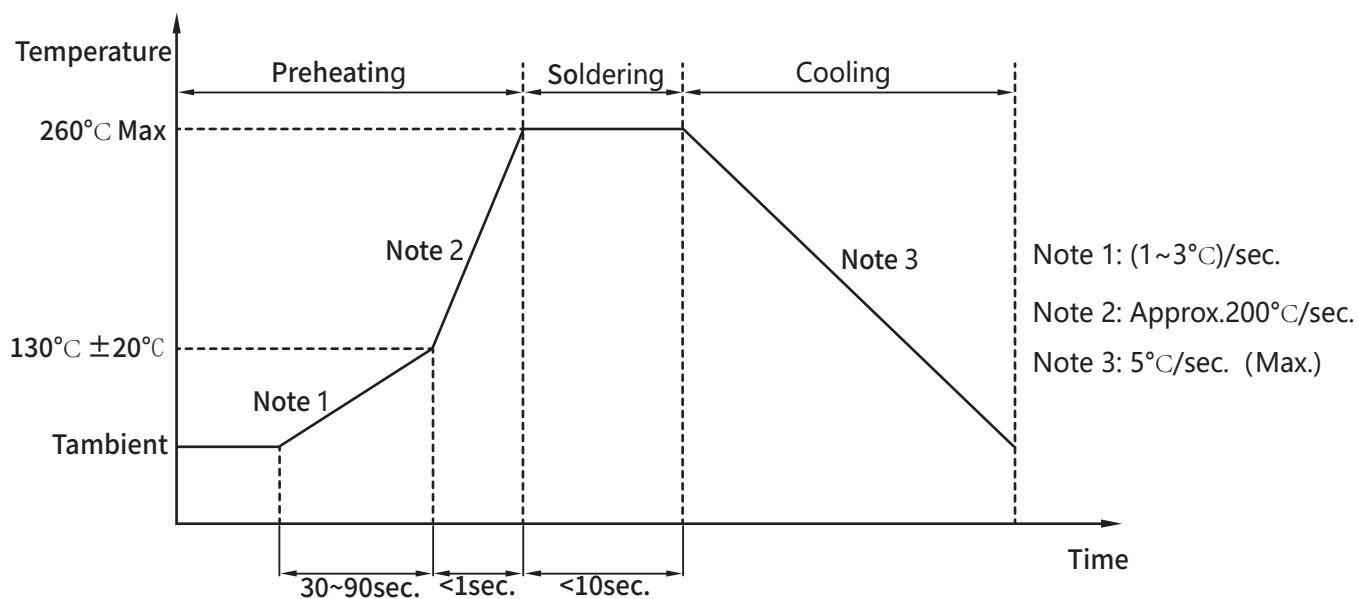


Body Diameter  $\Phi 40$  Inrush Current Limiter MF73T-1 V-I Curve





## Wave Soldering Profile



## Recommended Reworking Conditions With Soldering Iron

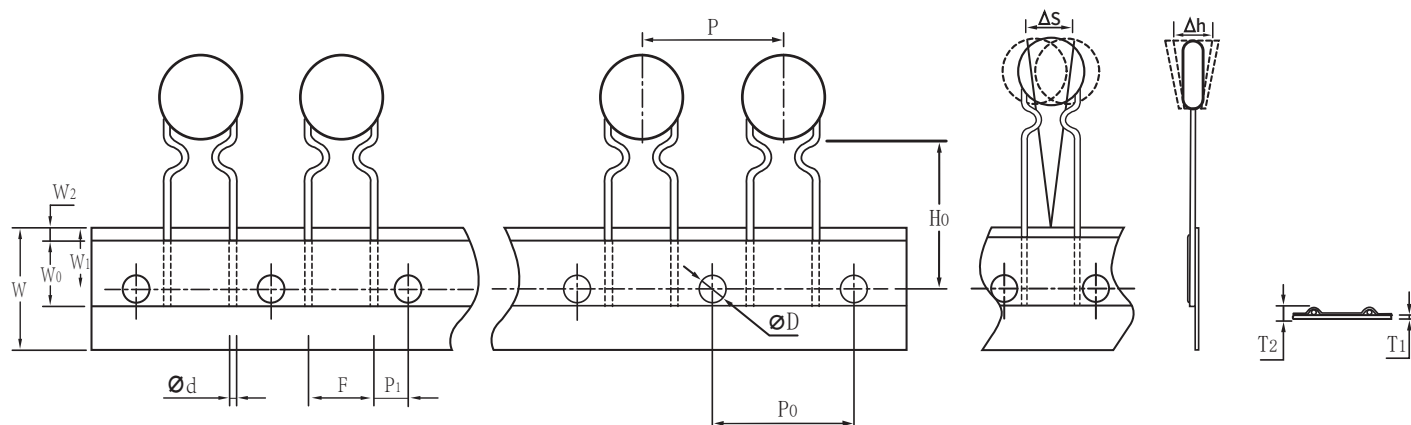
| Item                              | Condition    |
|-----------------------------------|--------------|
| Temperature of Soldering Iron Tip | 360°C (max.) |
| Soldering Time                    | 3 sec (max.) |
| Distance from Thermistor          | 2 mm (min.)  |

## Reliability

| No.                | Test Item                       | Test Standard | Test Conditions / Methods                                                                                                                                                                                                                                                                                                                                          | Acceptance Criteria                      |                                          |                  |   |               |    |                |    |                |    |                                          |
|--------------------|---------------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|------------------|---|---------------|----|----------------|----|----------------|----|------------------------------------------|
| 1                  | Terminal                        | IEC60068-2-21 | Gradually apply the specified force and keep the unit fixed for 10 ± 1 sec.<br><table><tr><th>Lead diameter (mm)</th><th>Pull strength (N)</th></tr><tr><td>d ≤ 0.5</td><td>5</td></tr><tr><td>0.5 &lt; d ≤ 0.8</td><td>10</td></tr><tr><td>0.8 &lt; d ≤ 1.25</td><td>20</td></tr><tr><td>1.25 &lt; d ≤ 2.0</td><td>40</td></tr></table> Duration: 10 ± 1 seconds. | Lead diameter (mm)                       | Pull strength (N)                        | d ≤ 0.5          | 5 | 0.5 < d ≤ 0.8 | 10 | 0.8 < d ≤ 1.25 | 20 | 1.25 < d ≤ 2.0 | 40 | No visible damage.<br> ΔR25 / R25  ≤ 20% |
| Lead diameter (mm) | Pull strength (N)               |               |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| d ≤ 0.5            | 5                               |               |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| 0.5 < d ≤ 0.8      | 10                              |               |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| 0.8 < d ≤ 1.25     | 20                              |               |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| 1.25 < d ≤ 2.0     | 40                              |               |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| 2                  | Solderability                   | IEC60068-2-20 | Temperature: 245°C ± 5°C, for 2 ~ 3 seconds.                                                                                                                                                                                                                                                                                                                       | Coverage area ≥ 95%                      |                                          |                  |   |               |    |                |    |                |    |                                          |
| 3                  | Resistance to Soldering Heat    | IEC60068-2-20 | Temperature of solder bath: 260°C ± 5°C, insertion depth: 6 mm from resistor body, duration: 10 ± 1 seconds.                                                                                                                                                                                                                                                       | No visible damage.<br> ΔR25 / R25  ≤ 20% |                                          |                  |   |               |    |                |    |                |    |                                          |
| 4                  | Steady humidity and heat        | IEC60068-2-78 | Temperature: 40°C ± 2°C, 93% RH ± 2% RH, 1000 hrs.                                                                                                                                                                                                                                                                                                                 | No visible damage.<br> ΔR25 / R25  ≤ 20% |                                          |                  |   |               |    |                |    |                |    |                                          |
| 5                  | Rapid Temperature Cycling       | IEC60068-2-14 | The conditions shown below shall be repeated 5 cycles.                                                                                                                                                                                                                                                                                                             |                                          | No visible damage.<br> ΔR25 / R25  ≤ 20% |                  |   |               |    |                |    |                |    |                                          |
|                    |                                 |               | Step                                                                                                                                                                                                                                                                                                                                                               | Temperature (°C)                         |                                          | Period (minutes) |   |               |    |                |    |                |    |                                          |
|                    |                                 |               | 1                                                                                                                                                                                                                                                                                                                                                                  | T <sub>L</sub> ± 5                       |                                          | 30 ± 3           |   |               |    |                |    |                |    |                                          |
|                    |                                 |               | 2                                                                                                                                                                                                                                                                                                                                                                  | Room temperature                         |                                          | 5 ± 3            |   |               |    |                |    |                |    |                                          |
|                    |                                 |               | 3                                                                                                                                                                                                                                                                                                                                                                  | T <sub>U</sub> ± 5                       |                                          | 30 ± 3           |   |               |    |                |    |                |    |                                          |
| 4                  | Room temperature                | 5 ± 3         |                                                                                                                                                                                                                                                                                                                                                                    |                                          |                                          |                  |   |               |    |                |    |                |    |                                          |
| 6                  | High Temperature Storage        | IEC60068-2-2  | Temperature: T <sub>U</sub> ± 2°C, Duration: 1000 hrs.                                                                                                                                                                                                                                                                                                             |                                          | No visible damage.<br> ΔR25 / R25  ≤ 20% |                  |   |               |    |                |    |                |    |                                          |
| 7                  | Maximum Steady-State            | IEC60539-1    | Apply maximum steady-state current to the thermistor at ambient temperature for 1000 ± 24 hours.                                                                                                                                                                                                                                                                   |                                          | No visible damage.<br> ΔR25 / R25  ≤ 20% |                  |   |               |    |                |    |                |    |                                          |
| 8                  | Maximum Permissible Capacitance | IEC60539-1    | Apply the maximum permissible capacitance to the thermistor, with a duty cycle consisting of 50 ms ON and an OFF period equivalent to five times the thermal time constant. Repeat this cycle 1000 times.                                                                                                                                                          |                                          | No visible damage.<br> ΔR25 / R25  ≤ 20% |                  |   |               |    |                |    |                |    |                                          |

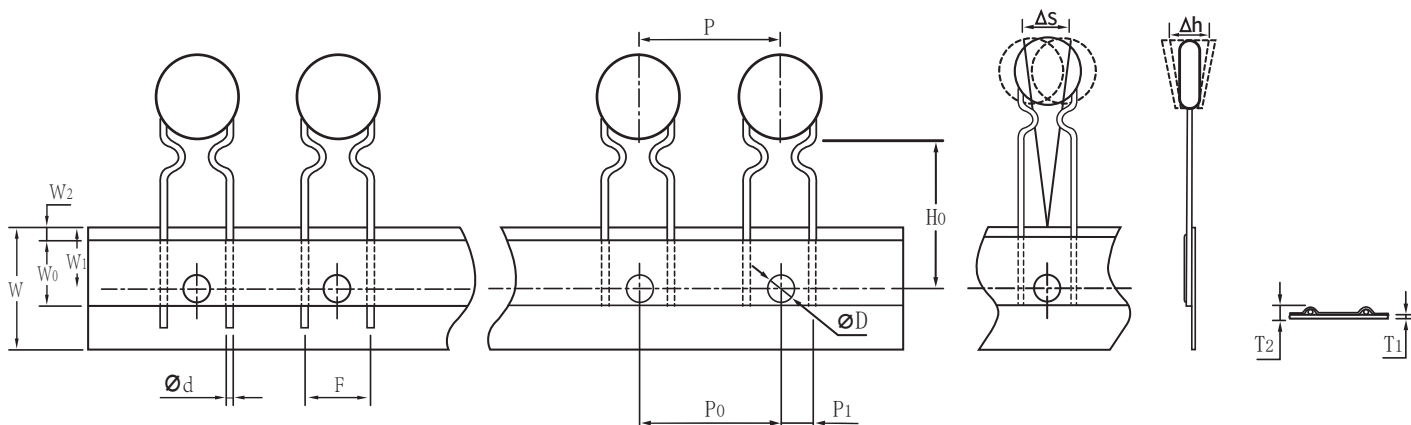
## Packing Method

### 1.Taped packaging (inward Lead)



(Unit: mm)

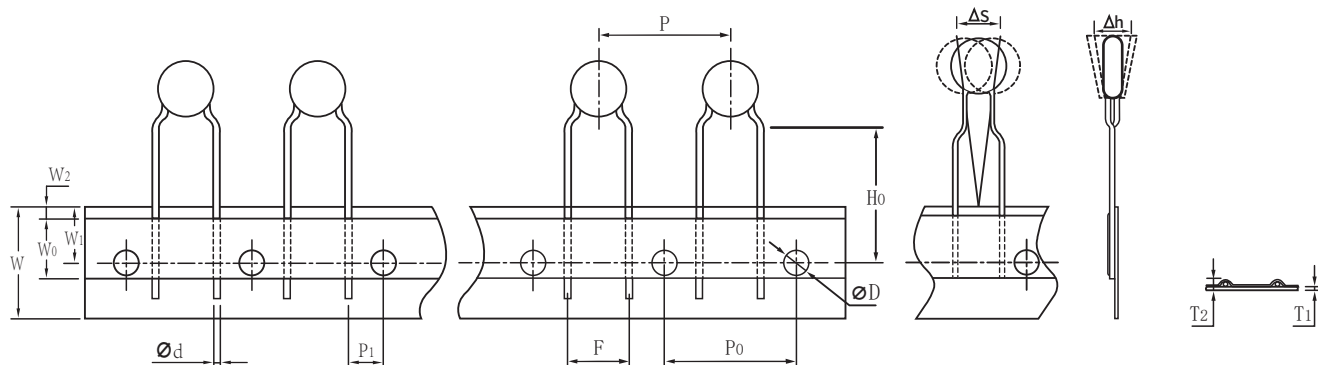
| Taping Dimensions | P     | F     | P <sub>0</sub> | P <sub>1</sub> | W     | W <sub>0</sub> | W <sub>1</sub> | W <sub>2</sub> | ØD    | T <sub>1</sub> | T <sub>2</sub> | Δh   | Δs   | Ød               | H <sub>0</sub> |
|-------------------|-------|-------|----------------|----------------|-------|----------------|----------------|----------------|-------|----------------|----------------|------|------|------------------|----------------|
|                   | ± 1.0 | ± 0.5 | ± 0.3          | ± 0.5          | ± 0.5 | ± 2            | ± 0.5          | Max.           | ± 0.2 | ± 0.1          | Max.           | Max. | Max. | ± 0.05           | +1 / -0        |
| P0: 12.7          | 12.7  | 5.0   | 12.7           | 3.85           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 16.0           |
| P0: 15.0          | 15.0  | 7.5   | 15.0           | 3.75           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 16.0           |



(Unit: mm)

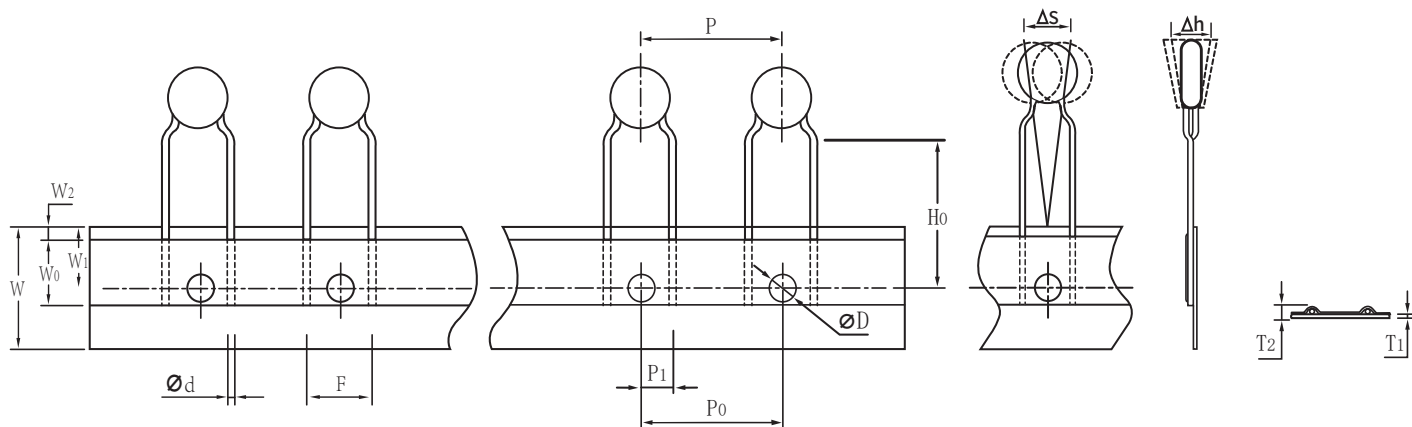
| Taping Dimensions | P     | F     | P <sub>0</sub> | P <sub>1</sub> | W     | W <sub>0</sub> | W <sub>1</sub> | W <sub>2</sub> | ØD    | T <sub>1</sub> | T <sub>2</sub> | Δh   | Δs   | Ød               | H <sub>0</sub> |
|-------------------|-------|-------|----------------|----------------|-------|----------------|----------------|----------------|-------|----------------|----------------|------|------|------------------|----------------|
|                   | ± 1.0 | ± 0.5 | ± 0.3          | ± 0.5          | ± 0.5 | ± 2            | ± 0.5          | Max.           | ± 0.2 | ± 0.1          | Max.           | Max. | Max. | ± 0.05           | +1 / -0        |
| P0: 12.7          | 12.7  | 7.5   | 12.7           | 3.75           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 16.0           |

## 2.Taped Packaging (Shoulder Leads)



(Unit: mm)

| Taping Dimensions | P     | F     | P <sub>0</sub> | P <sub>1</sub> | W     | W <sub>0</sub> | W <sub>1</sub> | W <sub>2</sub> | ØD    | T <sub>1</sub> | T <sub>2</sub> | Δh   | Δs   | Ød               | H <sub>0</sub> |
|-------------------|-------|-------|----------------|----------------|-------|----------------|----------------|----------------|-------|----------------|----------------|------|------|------------------|----------------|
|                   | ± 1.0 | ± 0.5 | ± 0.3          | ± 0.5          | ± 0.5 | ± 2            | ± 0.5          | Max.           | ± 0.2 | ± 0.1          | Max.           | Max. | Max. | ± 0.05           | +1 / -0        |
| P0: 12.7          | 12.7  | 5.0   | 12.7           | 3.85           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 20.0           |
| P0: 15.0          | 15.0  | 7.5   | 15.0           | 3.75           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 20.0           |



(Unit: mm)

| Taping Dimensions | P     | F     | P <sub>0</sub> | P <sub>1</sub> | W     | W <sub>0</sub> | W <sub>1</sub> | W <sub>2</sub> | ØD    | T <sub>1</sub> | T <sub>2</sub> | Δh   | Δs   | Ød               | H <sub>0</sub> |
|-------------------|-------|-------|----------------|----------------|-------|----------------|----------------|----------------|-------|----------------|----------------|------|------|------------------|----------------|
|                   | ± 1.0 | ± 0.5 | ± 0.3          | ± 0.5          | ± 0.5 | ± 2            | ± 0.5          | Max.           | ± 0.2 | ± 0.1          | Max.           | Max. | Max. | ± 0.05           | +1 / -0        |
| P0: 12.7          | 12.7  | 7.5   | 12.7           | 3.75           | 18    | 10             | 9              | 3              | 4     | 0.5            | 1.5            | 1    | 1.3  | Refer to product | 20.0           |

## Packaging and Quantity

### ● Bulk (sealed bag)

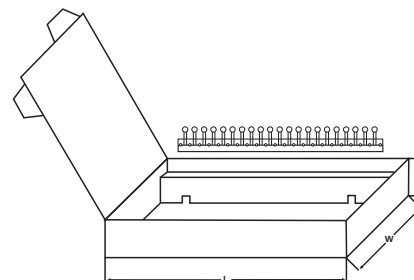
| Body Size | Long Lead Quantity (pcs / bag) | Short Lead Quantity (pcs / bag) |
|-----------|--------------------------------|---------------------------------|
| Ø5        | 1000                           | 1000                            |
| Ø7        | 500                            | 1000                            |
| Ø9        | 500                            | 1000                            |
| Ø11       | 500                            | 500                             |
| Ø13       | 300                            | 400                             |
| Ø15       | 200                            | 300                             |

### ● Box Packaging (Plastic Tray + EPE Foam)

| Body Size | Quantity (pcs / box) |
|-----------|----------------------|
| Ø20       | 290                  |
| Ø25       | 200                  |
| Ø30       | 80                   |
| Ø35       | 80                   |
| Ø40       | 80                   |

### ● Box Packaging (Taped)

| Body Size | Quantity (pcs / box) |
|-----------|----------------------|
| Ø5        | 1500                 |
| Ø7        | 1000                 |
| Ø9        | 1000                 |
| Ø11       | 1000                 |
| Ø13       | 500                  |
| Ø15       | 500                  |



| L      | W      | H     |
|--------|--------|-------|
| 330 mm | 240 mm | 52 mm |

## Storage Conditions

- Storage temperature:  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ ; relative humidity:  $\leq 75\%$  RH.
- Avoid storage in environments containing corrosive substances or gases, or exposure to direct sunlight and radiation sources.
- After the packaging is opened, it must be resealed. Shelf life: 1 year.