High Current Thermal Fuse

TPD Series

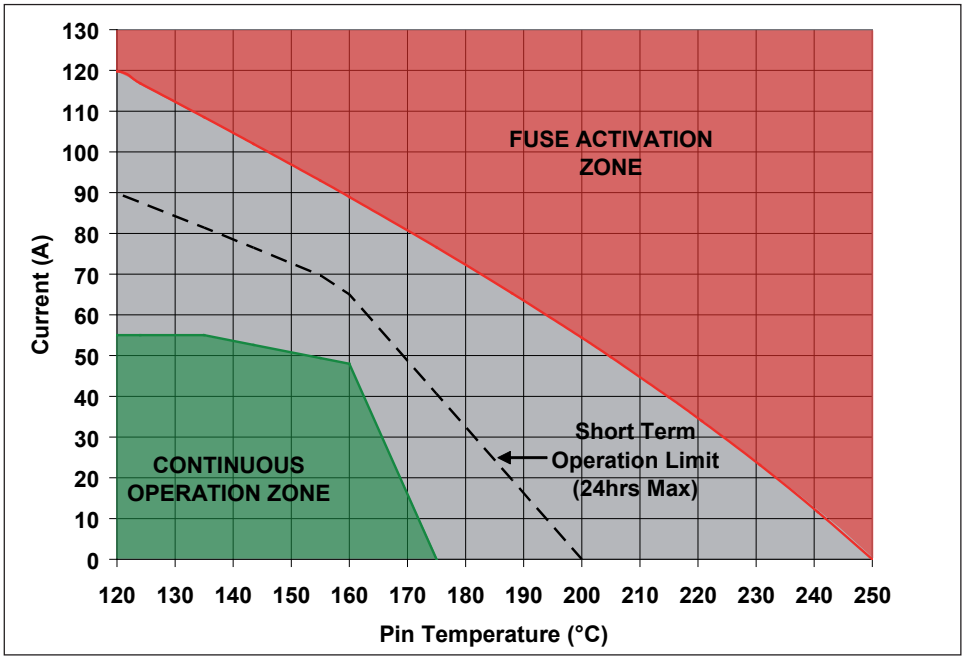
- Fusing Temperature 235°C ± 15°C
- Continuous Operation 55A at 135°C
- One-Shot Non-Resettable Design
- High Temperature DAP Case
- Rugged Vibration Resistant Potted Construction
- RoHS Compliant

All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Operation Characteristics

Characteristic	Value
Resistance at 25°C	≤ 0.700mΩ
Functioning Temperature	235°C ± 15°C
Rated Current	55A
Operating Temperature at Rated Current	-40°C to 135°C
Max Operating Temperature (0A)	175°C
Lead Diameter	1.3mm (0.050”)
Lead Spacing	15.2mm (0.600”)

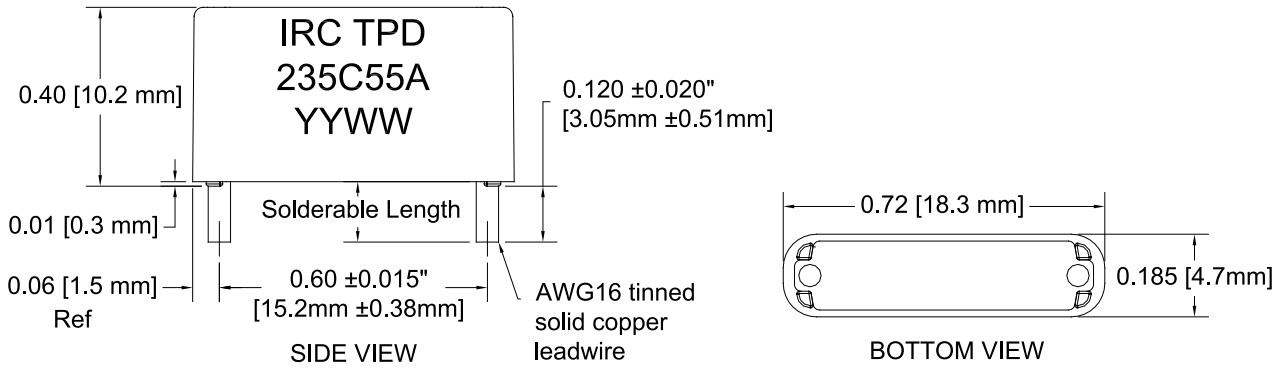
Fusing Current



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.
All information is subject to TT Electronics’ own data and is considered accurate at time of going to print.

Physical Data



Dimensional Tolerances (unless noted) are ± 0.010" (0.25mm)

Date Code is "**YYWW**" where "**YY**" is the Year and "**WW**" is the Week

Environmental Performance

Test	Method	Max Specification
High Temperature Exposure	MIL-STD-202G, Method 108A 500hrs at 150°C	20% ΔR & ≤ 0.700mΩ Fuse Open[1] ≤ 250°C
Thermal Shock	MIL-STD-202G, Method 107G 300 Cycles -55°C to +165°C	Fuse Open[1] ≤ 250°C
Heavy Load	60A at 135°C for 24hrs	Fuse Open[1] ≤ 250°C
Moisture/Humidity	MIL-STD-202G, Method 106G	Fuse Open[1] ≤ 250°C
Solderability	J-STD-002	>95% Coverage
Resistance to Solder Heat	MIL-STD-202G, Method 210F	20% ΔR & ≤ 0.700mΩ
Vibration	MIL-STD-202G, Method 204	20% ΔR & ≤ 0.700mΩ
Life/High Temperature Endurance	MIL-STD-202G, Method 108A 55A at 135°C	20% ΔR & ≤ 0.700mΩ
Mechanical Shock	MIL-STD-202G, Method 213B 50G for 6ms performed 10X per axis	20% ΔR & ≤ 0.700mΩ
Terminal Strength	MIL-STD-202G, Method 211A	20% ΔR & ≤ 0.700mΩ

Note[1] : "Open" when resistance ≥ 100kΩ.

Process Recommendations

Wave solder
10s contact time (total) maximum
260°C maximum
Two cycles maximum

Hand solder
Tip temperature 350°C maximum
Contact time 5s maximum
Permit cooling between soldering first & second terminal

Ordering Data

Prefix TPD - 235C - 55A
Thermal Protection Device (TPD)

Fusing Temperature
235 degres Celsius

Current Rating
55 Amps

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

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