

Special Application Fuse Barrier Network Fuse>MFC Series

Description

- The MFC Series hazardous area barrier network fuse offers a range of uses designed to enable greater safety operating electronic equipment within potentially explosive environments.

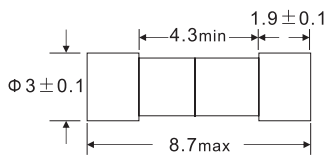
Features

- Meets the 1500A interrupt rating requirement of IEC 60079-0 and IEC 60079-11 (Intrinsic Safety) Hazardous Locations Standards
- Available in both axial lead and surface mount.

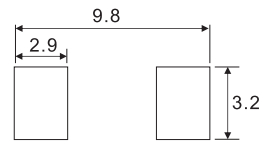
Applications

- Type protected electrical equipment; Electrical connections and components, Test equipment

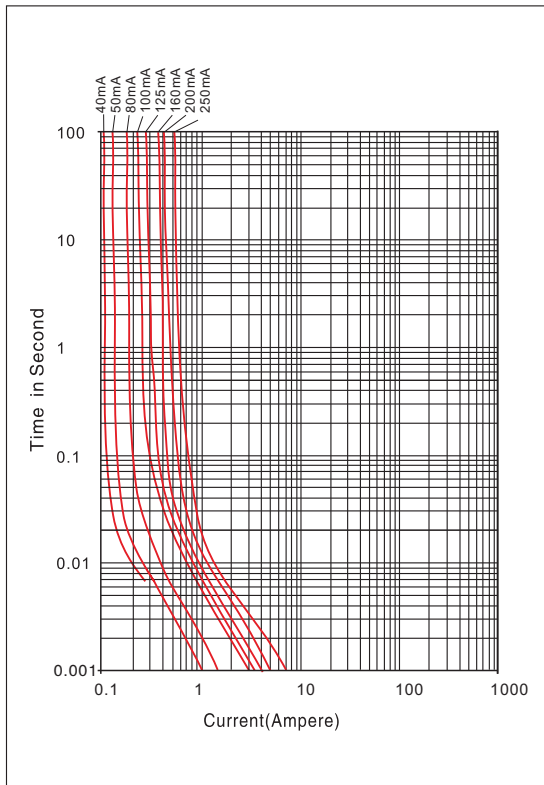
Dimensions(mm)



Recommended Pad Layout(mm)



Time-Current Characteristics



Electrical Characteristics

Electrical Characteristics 熔斷特性		
Ampere Rating	% of Amp Rating	Opening Time
40mA-250mA	170%	4 Hours Minimum
	300%	10 Seconds Maximum
	1000%	0.002 Seconds Maximum

Electrical Specifications

Ampere Rated In 額定電流	Marking 標記	Minimum Resistance Cold(Ohm) 最小冷阻值	Maximum Resistance Cold(Ohm) 最大冷阻值	Typical Voltage Drop(mV) 電壓降	Normal Melting I ² T(A ² sec) 標準熔斷值
40mA	Gray	12.1	16.6	685	0.00023
50mA	Red	8.00	13.0	1220	0.00049
80mA	Green	4.20	7.90	1045	0.00050
100mA	Yellow	2.00	3.80	834	0.00087
125mA	Orange	1.90	2.40	391	0.00047
160mA	Violet	1.70	2.70	655	0.00166
200mA	Brown	0.85	1.50	312	0.00237
250mA	Black	0.55	0.90	225	0.00530

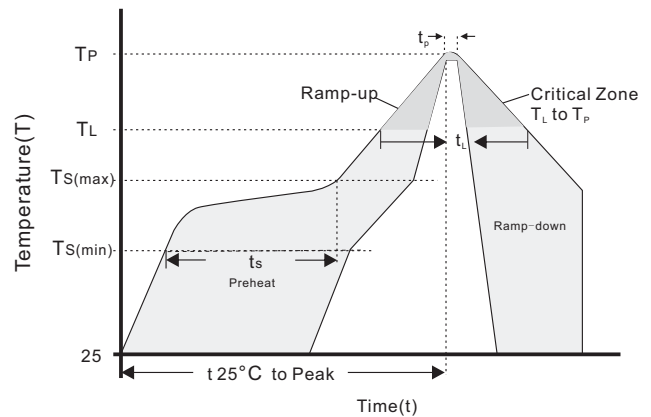
Approvals

Safety Agency	Amp Range/Volt @ I.R ability
	40mA-250mA/125V AC@1500A 40mA-250mA/250V AC@4000A

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Soldering Parameters

Reflow Condition		Pb – Free assembly
Heat Pre	Temperature Min (Ts)	150°C
	Temperature Max (Ts)	200°C
	Time (Min to Max) (ts)	60 – 180 secs
Average ramp up rate (Liquidus Temp (TL) to peak)		3°C/second max
Ts(max) to TL - Ramp-up Rate		5°C/second max
Reflow	- Temperature (TL) (Liquidus)	217°C
	Time (Min to Max) (tL)	60 – 150 seconds
Peak Temperature (TP)		250 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (tp)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (TP)		8 minutes Max.
Do not exceed		260°C



Operation Temperature

-40°C to 125°C

Physical Specification Materials

Ceramic Body

Silverplated Brass Caps

Packaging

On Tape:MFC-500pcs Per Reel

MFC-5000pcs in box