0259.750M Datasheet

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DiGi Electronics Part Number	0259.750M-DG
Manufacturer	Littelfuse Inc.
Manufacturer Product Number	0259.750M
Description	FUSE BRD MNT 750MA 125VAC/VDC
Detailed Description	750mA 125 VAC 125 VDC Fuse Board Mount Through Hole

This model 0259.750M is available at DiGi Electronics.

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Manufacturer Product Number:	Manufacturer:
0259.750M	Littelfuse Inc.
Series:	Product Status:
259	Active
Mounting Type:	Fuse Type:
Through Hole	Board Mount
Current Rating (Amps):	Voltage Rating - AC:
750mA	125 VAC
Voltage Rating - DC:	Response Time:
125 VDC	Fast Blow
Applications:	Features:
Hazardous Locations	Intrinsically Safe
Class:	Approval Agency:
-	Baseefa, UR
Operating Temperature:	Breaking Capacity @ Rated Voltage:
-55°C ~ 90°C	50A AC, 300A DC
Package / Case:	Size / Dimension:
Radial, Can, Horizontal	0.315" Dia x 0.512" L (8.00mm x 13.00mm)
Melting I^2t:	DC Cold Resistance:
0.153	0.175 Ohms

Environmental & Export classification

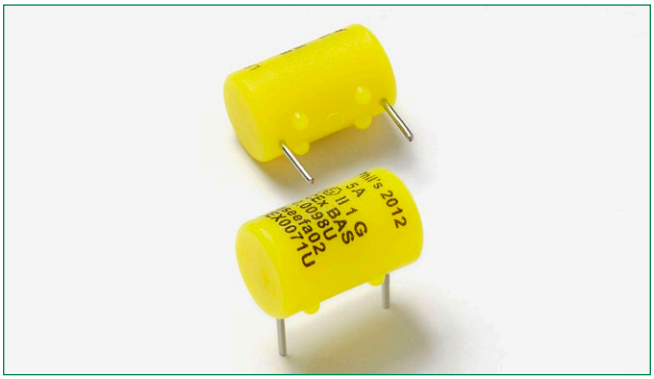
RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8536.10.0040	

Littelfuse
Expertise Applied | Answers Delivered

Special Application Fuses

PICO® 259 Series Safe-T-Plus Fuse for Hazardous Locations

PICO® 259 Series Safe-T-Plus Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
Ex	Baseefa02ATEX0071U	0.062A - 5A
IEC IECEx	IECEx BAS 10.0098U	0.062A - 5A
UL	E10480 E358130	0.062A - 5A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hours, Minimum
200%	5 Seconds, Maximum

Reference Standards

Agency	Standards
ATEX	EN 60079-0, EN 60079-11
IECEx	IEC 60079-0, IEC 60079-11
UL	UL 913, UL 60079-0, UL 60079-11

Description

The Safe-T-Plus 259 Series offers a range of encapsulated fuses designed to enable greater safety for operating electronic equipment within potentially explosive environments. Originally designed to serve the needs of gas plants, petrochemical and processing industries, these fuses are certitifed for use within intrinsically safe apparatus with ATEX and IECEx certifications.

The fuse design and its encapsulant are suitable for use in intrinsically safe appartatus and associated apparatus for voltage not exceeding 125V rms (190V peak).

Features

- Encapsulated and sealed (1mm minimum)
- 0.062A - 5A range options
- Designed to operate within environments where there is danger of gas explosion from faulty circuits
- ATEX and IECEx certified components
- RoHS compliant
- Suitable for use in Class I, Groups A, B, C and D; Class II, Groups E, F and G; Class III and Class I, Zone 0, AEx ia IIC Hazardous Locations.
- Suitable for use in Gas, Zone 0 Hazardous Locations per IEC and EN 60079 Series

Applications

- Testing, measuring or processing electronic and electrical equipment

Additional Information

Datasheet | Resources | Samples

Revised: GD.10/13/20

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Special Application Fuses

PICO® 259 Series Safe-T-Plus Fuse for Hazardous Locations

Electrical Specifications by Items

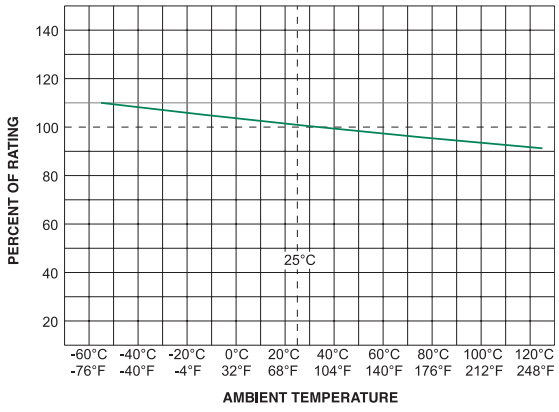
Ampere Rating (A)	Amp Code	Interrupting Rating	Nominal Melting I^2t (A^2 Sec.)	Minimum Cold Resistance at -20°C (Ohms)	Minimum Cold Resistance at -40°C (Ohms)	Nominal Cold Resistance at 25°C (Ohms)	Agency Approvals		
							Ex	IEC IECEx	
0.062	.062	50A @ 125 VAC 300A @ 125 VDC	0.00011	4.89	4.39	7.00	x	x	x
0.125	.125		0.0012	1.35	1.26	1.70	x	x	x
0.250	.250		0.0095	0.51	0.48	0.665	x	x	x
0.375	.375		0.025	0.32	0.29	0.395	x	x	x
0.500	.500		0.0598	0.24	0.22	0.302	x	x	x
0.750	.750		0.153	0.14	0.12	0.175	x	x	x
1.00	001.		0.256	0.10	0.07	0.128	x	x	x
3.00	003.		1.27	0.03	0.01	0.03	x	x	x
5.00	005.	50A @ 125 VAC 300A @ 63 VDC	4.14	0.01	0.005	0.0158	x	x	x

Schedule of limitations:
1. The fuse must be so mounted that creepage and clearance distances aren't impaired in any way.
2. The fuse is suitable for use in intrinsically safe equipment for voltages not exceeding 190V peak.
3. Maximum surface temperature rise at 170% rated current: ≤750mA=40°C, 1A=55°C, 3A=118°C and 5A=135°C.

Product Characteristics

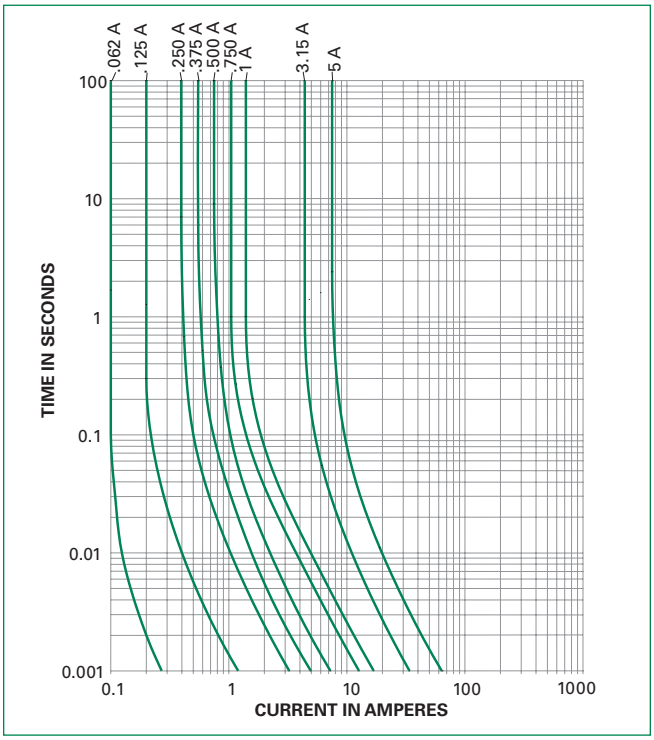
Materials	Body : Polyamide Terminals - Tin Plated Copper Alloy Max. operating temperature of materials 130°C
Operating Temperature	Operating temperature depends on fuse rating and max. allowed fuse surface temperature. (Consider re-rating)
Thermal Shock	Withstands 5 cycles of – 55°C to 125°C
Vibration	Per MIL-STD-202, Method 201
Insulation Resistance (After Opening)	Greater than 10,000 ohms

Temperature Re-rating Curve



Note:
1. Re-rating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



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Special Application Fuses

PICO® 259 Series Safe-T-Plus Fuse for Hazardous Locations

Soldering Parameters

Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260°C Maximum
Solder Dwell Time:	2-5 seconds

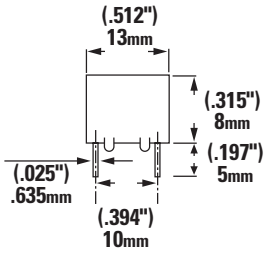
Recommended Hand Soldering Parameters:

Solder Iron Temperature: 350°C +/- 5°C

Heating Time: 5 seconds max.

Note: These devices are not recommended for IR or Convection Reflow process

Dimensions



Part Numbering System

0259.062M

Series

AMP Code

The dot is poisitioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings. Refer to Amp Code column in the Electrical Specifications table.

Packaging Code

M = Bulk pack, 1000 pcs
T = Bulk pack, 10 pcs

Example:
1 amp product is 0259**001.**M
(.062 amp product shown).

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
Bulk	N/A	1000	M = Bulk 1000 pieces, T = Bulk 10 pieces Please refer to available quantities above in "Part Numbering System"
Bulk	N/A	10	

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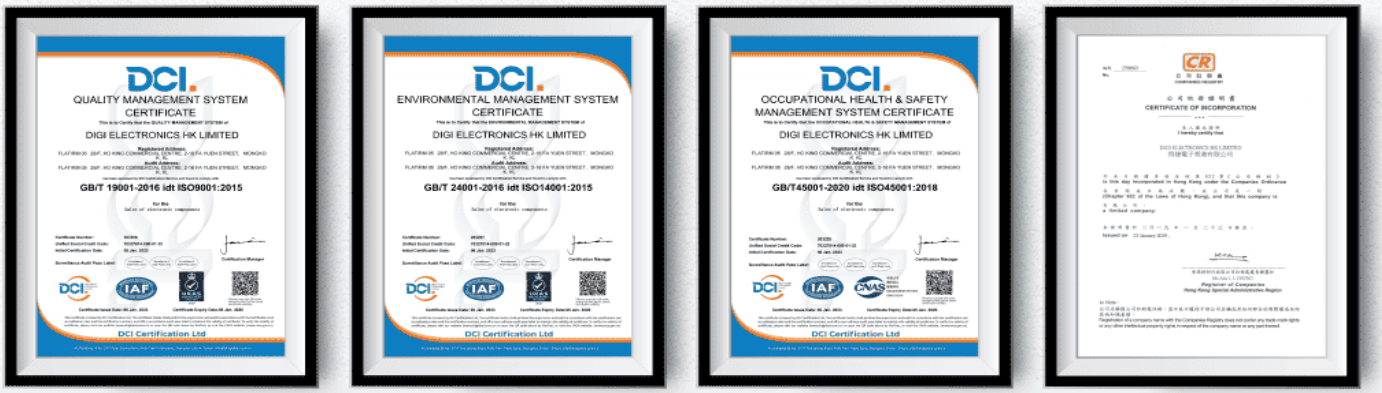

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