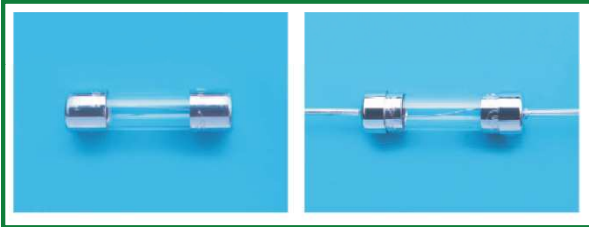


Type 5MF / 5MFP Fast Blow Fuse Series

5 x 20mm Glass Tube
RoHS 6 Compliant

HF Pb 5MF / 5MFP Series, 5 x 20mm Fast Blow Fuse



Description

5x20mm Fast Blow, glass tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

Electrical Characteristics (UL / CSA STD.248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
135%	N/A	1 Hr
200%	N/A	5 Sec

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS6 compliant
- Halogen Free
- Leadfree

Applications





Provide individual protection for components or internal circuits.

- Power Supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = 

HALOGEN FREE = 

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R.ABILITY
	E20624	80mA - 3A / 250V AC @200A 80mA - 8A / 125V AC @10,000A
	LR39772	
	JET 1037-31003-1010 JET 1037-31003-1011	1A - 5A / 125V AC @500A
	JET 1037-31003-1007	>5A - 15A / 125V AC @300A
		80mA - 8A / 125V AC @10,000A

Specifications subject to change without notice

Type 5MF / 5MFP

Fast Blow Fuse Series

5 x 20mm Glass Tube
RoHS 6 Compliant



5MF May2012D

Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) Max.	Voltage Rating (V)	Interrupting Rating	Melting I2T <10 m Sec (A2 Sec)	Melting I2T @ 10 In (A2 Sec)	Maximum Power Dissipation (W)	Agency Approvals			
5MF (P) 80-R	80mA	42.5	5.10	250	80mA - 3A / 250V AC @200A 80mA - 8A / 125V AC @10,000A	0.0004	0.0004	0.32	Y	Y		Y
5MF (P) 100-R	100mA	6.95	2.63	250		0.0009	0.0008	0.35	Y	Y		Y
5MF (P) 125-R	125mA	6.92	3.65	250		0.0017	0.0015	0.60	Y	Y		Y
5MF (P) 200-R	200mA	2.97	2.58	250		0.007	0.006	0.72	Y	Y		Y
5MF (P) 250-R	250mA	1.47	0.99	250		0.016	0.014	0.25	Y	Y		Y
5MF (P) 300-R	300mA	1.18	1.07	250		0.020	0.019	0.39	Y	Y		Y
5MF (P) 350-R	350mA	0.92	1.06	250		0.038	0.032	0.36	Y	Y		Y
5MF (P) 400-R	400mA	0.65	0.74	250		0.080	0.084	0.20	Y	Y		Y
5MF (P) 500-R	500mA	0.49	0.78	250		0.122	0.118	0.33	Y	Y		Y
5MF (P) 600-R	600mA	0.394	0.77	250		0.195	0.195	0.44	Y	Y		Y
5MF (P) 700-R	700mA	0.305	0.73	250		0.265	0.267	0.65	Y	Y		Y
5MF (P) 800-R	800mA	0.243	0.61	250		0.40	0.40	0.54	Y	Y		Y
5MF (P) 1-R	1A	0.118	0.22	250		0.88	0.85	0.26	Y	Y	Y	Y
5MF (P) 1.25-R	1.25A	0.085	0.21	250		1.5	1.5	0.31	Y	Y	Y	Y
5MF (P) 1.5-R	1.5A	0.067	0.17	250		2.6	2.6	0.36	Y	Y	Y	Y
5MF (P) 2-R	2A	0.046	0.16	250		4.4	4.5	0.44	Y	Y	Y	Y
5MF (P) 2.5-R	2.5A	0.037	0.16	250		7.6	7.8	0.52	Y	Y	Y	Y
5MF (P) 3-R	3A	0.030	0.17	250		13	14	0.59	Y	Y	Y	Y
5MF (P) 3.5-R	3.5A	0.025	0.15	125		17	18	0.65	Y	Y	Y	Y
5MF (P) 4-R	4A	0.019	0.14	125		22	24	0.72	Y	Y	Y	Y
5MF (P) 5-R	5A	0.016	0.15	125	38	41	0.84	Y	Y	Y	Y	
5MF (P) 6-R	6A	0.012	0.13	125	65	72	0.96	Y	Y	Y	Y	
5MF (P) 7-R	7A	0.011	0.13	125	88	97	1.10	Y	Y	Y	Y	
5MF (P) 8-R	8A	0.009	0.13	125	113	126	1.23	Y	Y	Y	Y	

Consult manufacturer for other ratings

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Type 5MF / 5MFP

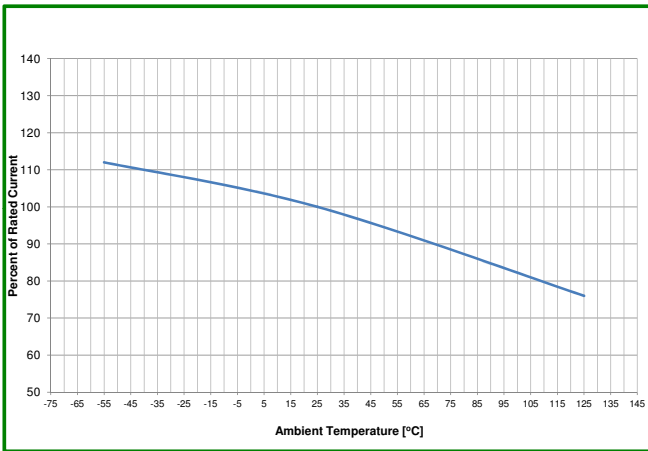
Fast Blow Fuse Series

5 x 20mm Glass Tube
RoHS 6 Compliant



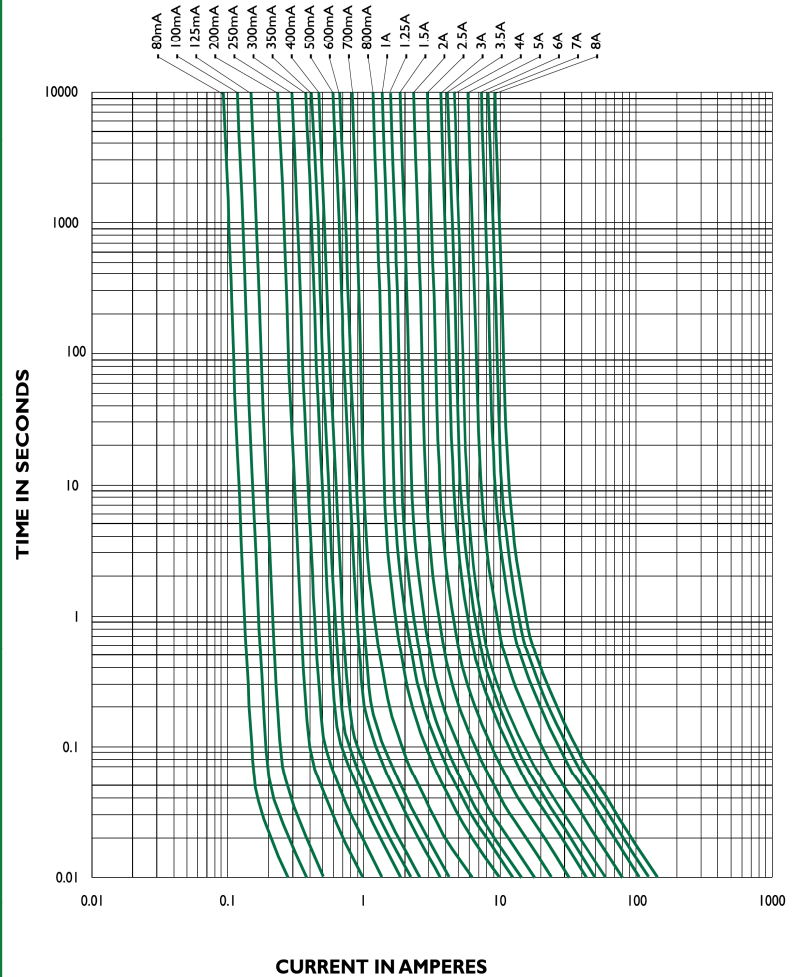
5MF May2012C

Temperature Derating Curve



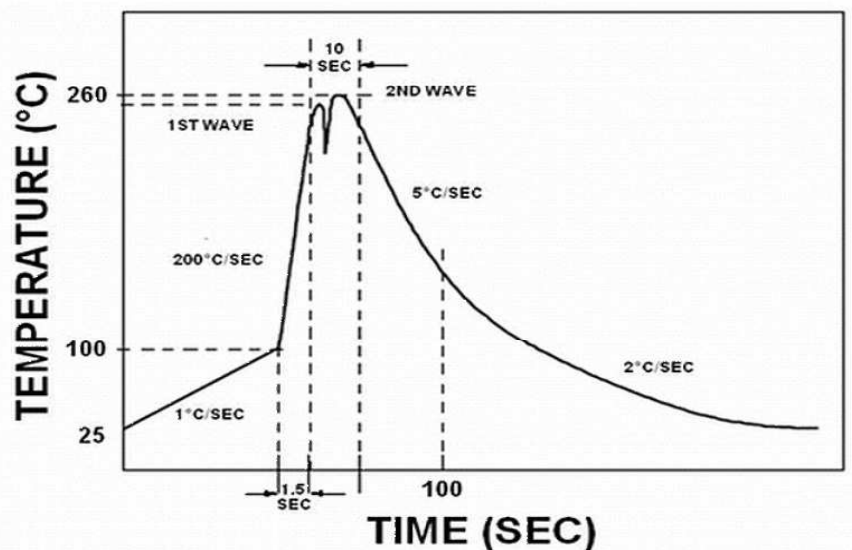
Average Time Current Curve

5MF / 5MFP - TIME CURRENT CHARACTERISTIC CURVE



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max. 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T _p	260°C
Time within +0 °C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5 °C / second max.



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5MF Mar2012D

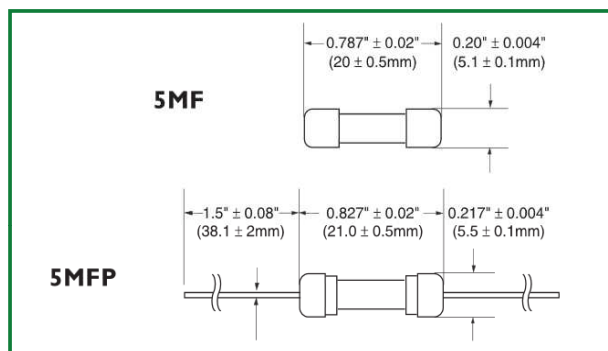
Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads: Matte Tin Plated Copper
Marking	On Fuse:
	"bel" , "5MF" , " Current Rating" ,"Voltage Rating" ,
	"Appropriate Safety Logos" , " "(RoHS 6 compliant)
	On label:
	"bel" , "5MF" , or "5MFP" ,"Current Rating" ,"Voltage Rating" ,"Interrupting Rating" , "Appropriate Safety Logos" and " " (China RoHS compliant).

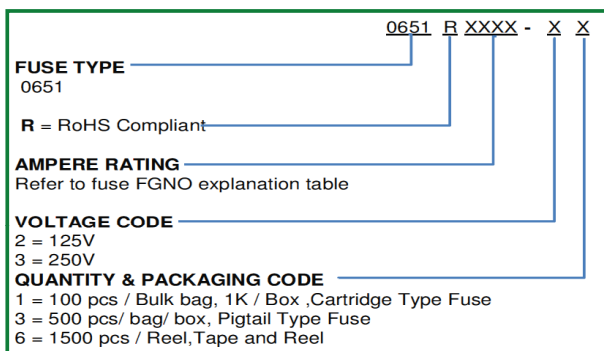
Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition I (100 G's peak for 6 milliseconds; Sawtooth Waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition A (After Opening) 10,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G Method 210F, Test Condition B. (260+/-5°C, 10+/- 1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65°C to +125°C).
Operating Temperature	-55°C to +125°C
Terminal Strength	IEC-68-2-21

Mechanical Dimensions



Ordering Information



* Ratings 5A and less have 0.032" diameter lead:
Ratings 6A and above have 0.040" diameter lead.

Specifications subject to change without notice

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	100	31 / 21	N/A
Bulk (Pigtail Type)	N/A	500	33 / 23	N/A
Tape & Reel, 10 mm Pitch	EIA-296-F	1500	73 / 26	63

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