



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Type 5MF / 5MFP

Fast Blow Fuse Series

HF [Ⓟ] 5MF/5MFP Series, 5x20mm Glass Tube Fast Blow Fuse

RoHS 6 Compliant

Description

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

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = [Ⓟ]
HALOGEN FREE = [Ⓟ]



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).

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

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
	E20624	80mA - 3A / 250V AC 3.15A - 8A / 125V AC	80mA - 3A / 250V AC @ 200A 80mA - 8A / 125V AC @ 10,000A
	LR39772		1A - 5A / 125V AC @ 500A
	JET1037-31003-1010 JET1037-31003-1011 JET1037-31003-1007		>5A - 15A / 125V AC @ 300A

* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

Specifications subject to change without notice



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Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (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

Electrical Specifications

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

Consult manufacturer for other ratings

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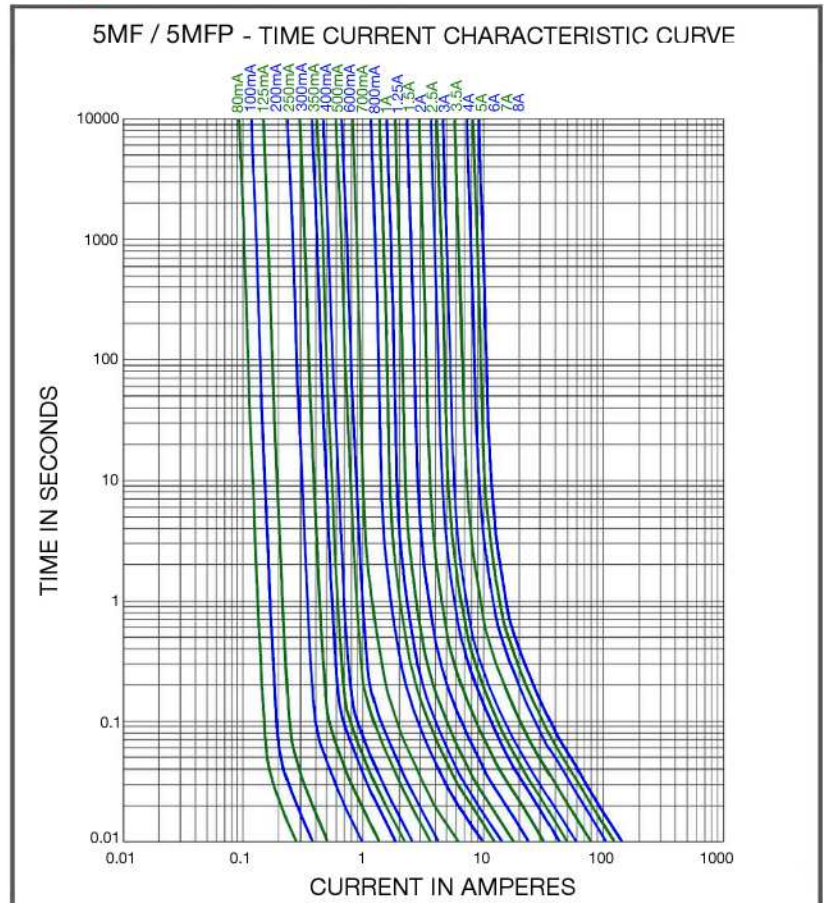
Type 5MF / 5MFP

Fast Blow Fuse Series

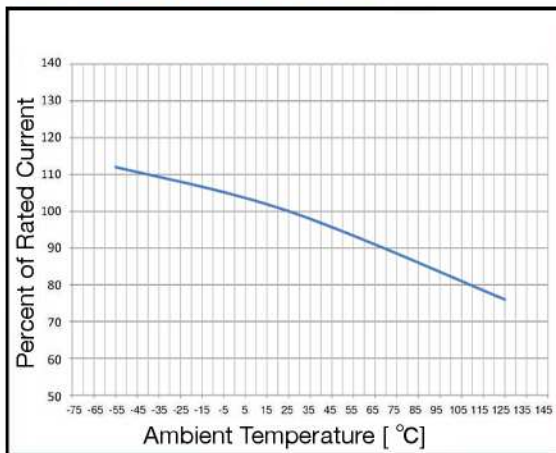
HF Pb 5MF/5MFP Series, 5x20mm Glass Tube Fast Blow Fuse

RoHS 6 Compliant

Average Time Current Curve

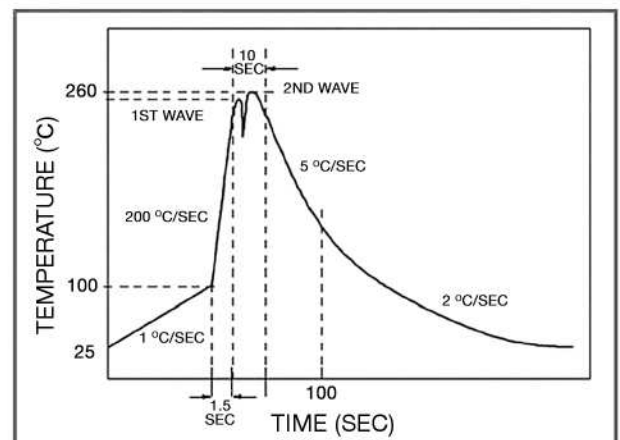


Temperature Derating Curve



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 Tp	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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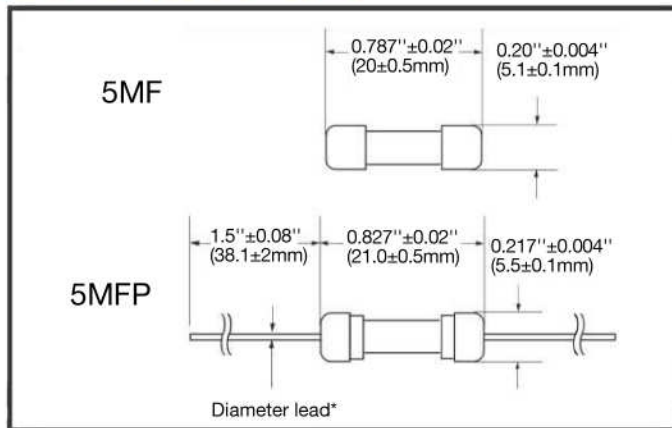
Fuse FGNO Explanation

0651 R [XXXX] - XX

[XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
8/100	0.080	80	0080		1.0	1	1000
1/10	.100	100	0100	1-1/4	1.25	1.25	1250
1/8	.125	125	0125	1-1/2	1.50	1.5	1500
2/10	.200	200	0200		2.0	2	2000
1/4	.250	250	0250	2-1/2	2.5	2.5	2500
3/10	.300	300	0300		3.0	3	3000
	.350	350	0350	3-1/2	3.5	3.5	3500
4/10	.400	400	0400		4.0	4	4000
1/2	.500	500	0500		5.0	5	5000
6/10	.600	600	0600		6.0	6	6000
7/10	.700	700	0700		7.0	7	7000
8/10	.800	800	0800		8.0	8	8000

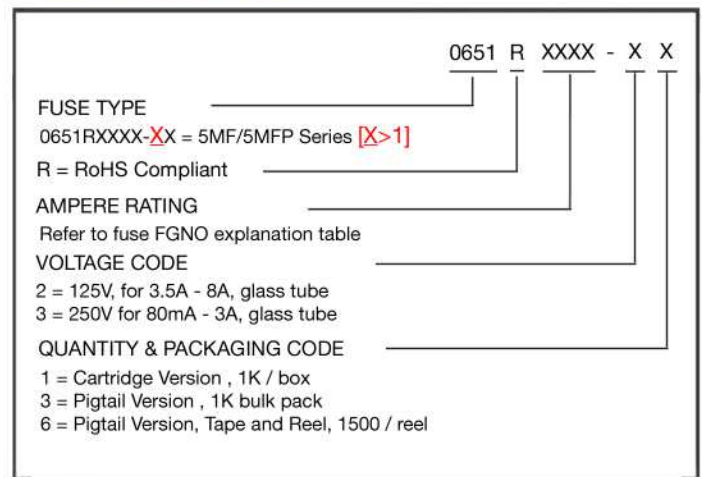
Mechanical Dimensions



*Ratings 5A and less have 0.032" diameter lead;

*Ratings 6A and above have 0.040" diameter lead.

Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	31/21	N/A
Bulk (Pigtail Type)	N/A	1000	33/23	N/A
Tape & Reel, 10mm Pitch	EIA-296-F	1500	73/26	63

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