Type 5MT / 5MTP

Medium Blow Fuse Series

HF Pb 5MT/5MTP Series, 5x20mm Glass Tube Medium Blow Fuse — RoHS 6 Compliant

Description

5x20mm Medium 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 = Pb
HALOGEN FREE = HF

Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "5MT", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos"," ✔ "(RoHS 6 compliant)
	On Label :
	"bel", "5MT"or"5MTP","Current Rating","Voltage Rating","Interrupting Rating", " Appropriate Safety Logos" and " ", " e " (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	15 sec
1000%	10 mSec	N/A

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	VOLTAGE RATING (V)	AMPERE RANGE / VOLT @ I.R. ABILITY*
cULus	E20624	100mA - 3A / 250V AC 3.15A - 7A / 125V AC	100mA - 800mA / 250V AC@ 35A 1A - 3A / 250V AC@100A 100mA - 5A / 125V AC@ 10,000A
CSA	LR39772		
PSE	JET1037-31003-1010 JET1037-31003-1011		1A - 5A / 125V AC @ 500A
	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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a bel group

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Jersey City, NJ 07302 USA

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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℃,10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65℃ to +125℃).
Operating Temperature	-55℃ to +125℃
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^2T <10 mSec (A^2 Sec)	Melting I^2T @10 In (A^2 Sec)	Maximum Power Dissipation (W)	Agency Approvals		
								cULus	CSA	PSE
5MT(P) 100-R	100mA	11.9	2.02	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.02	0.04	0.30	Y	Y	
5MT(P) 125-R	125mA	7.92	1.77		0.04	0.07	0.32	Y	Y	
5MT(P) 160-R	160mA	4.82	1.33		0.06	0.11	0.34	Y	Y	
5MT(P) 200-R	200mA	3.11	1.13		0.11	0.18	0.36	Y	Y	
5MT(P) 250-R	250mA	2.12	0.94		0.18	0.30	0.38	Y	Y	
5MT(P) 300-R	300mA	1.51	0.80		0.31	0.50	0.37	Y	Y	
5MT(P) 375-R	375mA	1.07	0.73		0.47	0.75	0.40	Y	Y	
5MT(P) 500-R	500mA	0.61	0.57		0.88	1.40	0.43	Y	Y	
5MT(P) 600-R	600mA	0.430	0.44		1.5	2.3	0.45	Y	Y	
5MT(P) 700-R	700mA	0.340	0.42		2.2	2.5	0.48	Y	Y	
5MT(P) 750-R	750mA	0.290	0.39		2.3	3.5	0.49	Y	Y	
5MT(P) 800-R	800mA	0.261	0.36		3.8	4.2	0.49	Y	Y	
5MT(P) 1-R	1A	0.183	0.33		4.2	6.4	0.49	Y	Y	Y
5MT(P) 1.25-R	1.25A	0.124	0.28		7.2	11	0.52	Y	Y	Y
5MT(P) 1.6-R	1.6A	0.081	0.23		12	18	0.55	Y	Y	Y
5MT(P) 2-R	2A	0.061	0.22		20	29	0.59	Y	Y	Y
5MT(P) 2.5-R	2.5A	0.043	0.19		35	49	0.65	Y	Y	Y
5MT(P) 3-R	3A	0.036	0.19		58	82	0.74	Y	Y	Y
5MT(P) 3.5-R	3.5A	0.029	0.18		76	105	0.84	Y	Y	Y
5MT(P) 4-R	4A	0.025	0.18		99	136	0.91	Y	Y	Y
5MT(P) 5-R	5A	0.019	0.17		167	226	1.10	Y	Y	Y
5MT(P) 6-R	6A	0.014	0.16		315	428	1.30			Y
5MT(P) 7-R	7A	0.012	0.15		750	1059	2.10			Y

Consult manufacturer for other ratings

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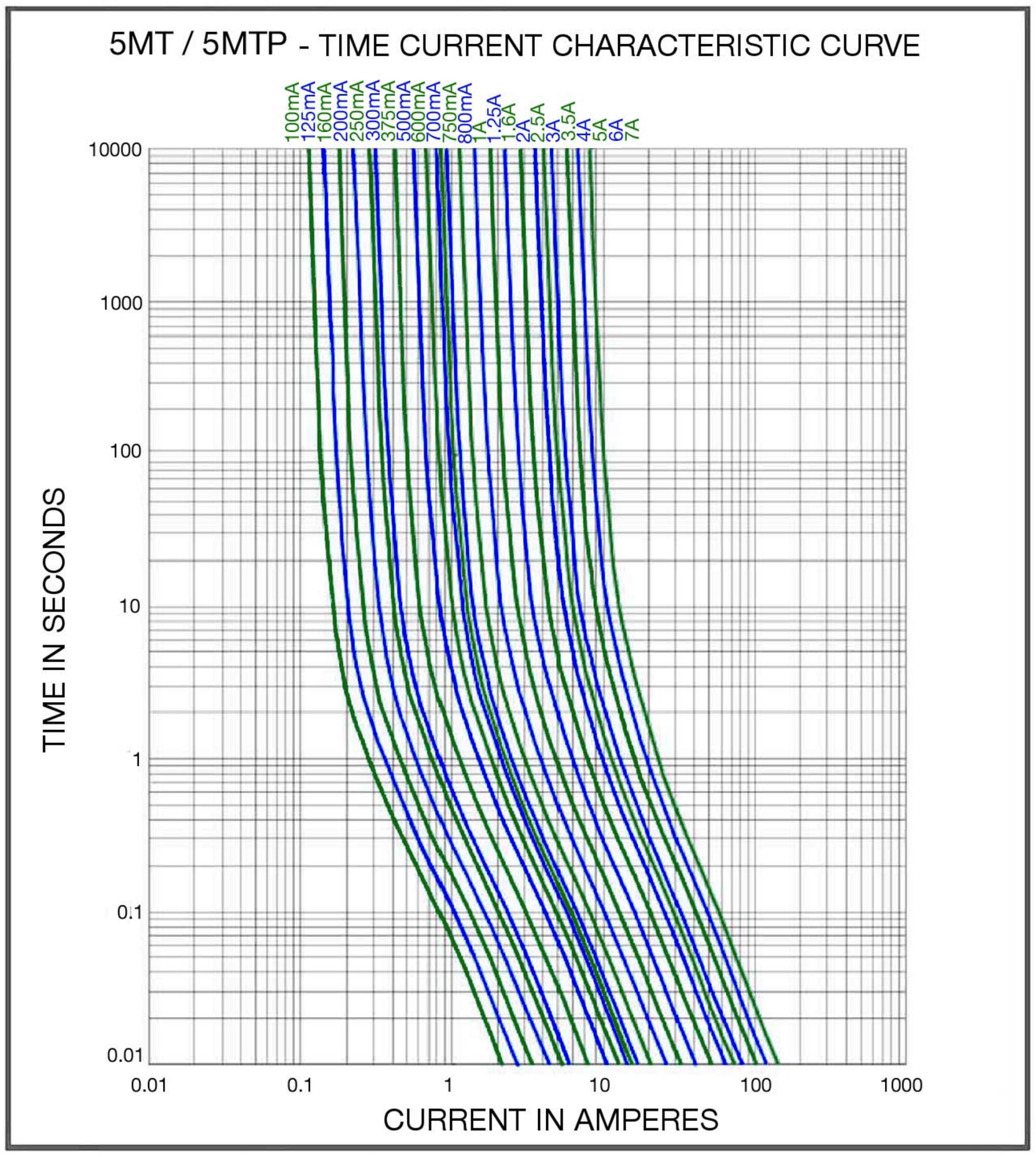
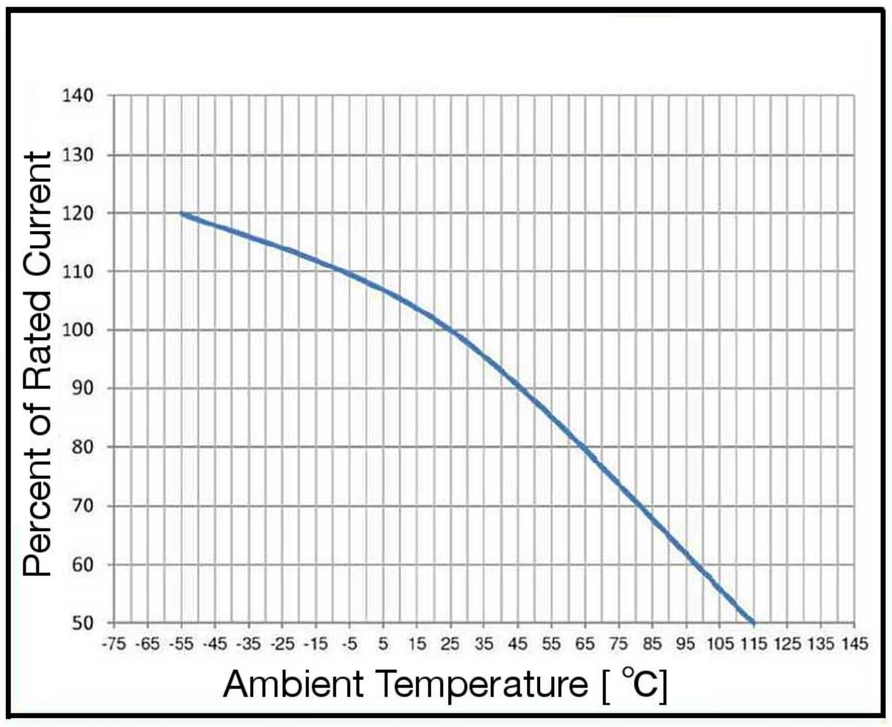
Average Time Current Curve

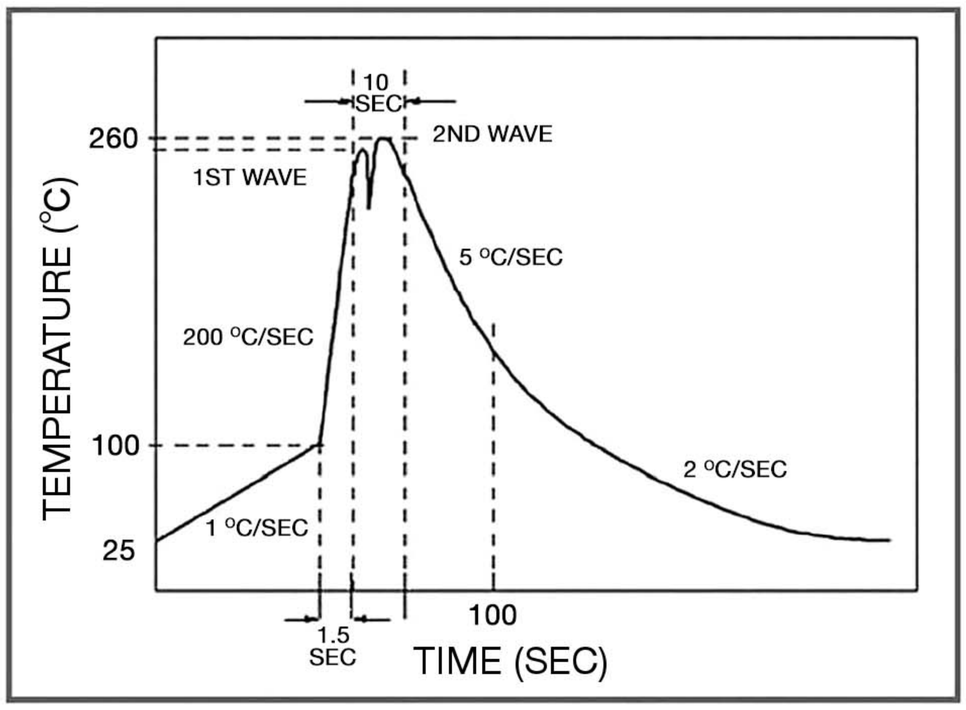


Temperature Derating Curve



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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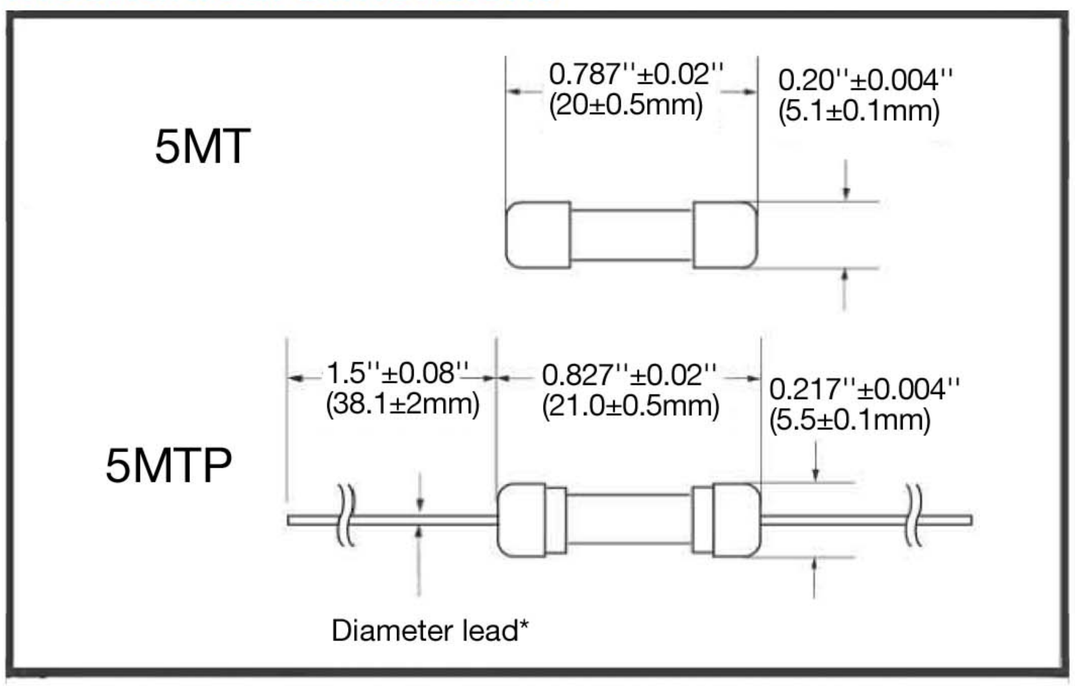
Fuse FGNO Explanation
06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/32	0.032	32	0032
1/25	.040	40	0040
1/20	.050	50	0050
1/16	.063	63	0063
8/100	.080	80	0080
1/10	.100	100	0100
1/8	.125	125	0125
15/100	.150	150	0150
	.160	160	0160
2/10	.200	200	0200
1/4	.250	250	0250
3/10	.300	300	0300
	.315	315	0315
3/8	.375	375	0375
4/10	.400	400	0400
1/2	.500	500	0500
6/10	.600	600	0600
	.630	630	0630
7/10	.700	700	0700
3/4	.750	750	0750
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
1-1/2	1.50	1.5	1500
	1.60	1.6	1600
	2.0	2	2000
2-1/4	2.25	2.25	2250
2-1/2	2.5	2.5	2500
	3.0	3	3000
	3.15	3.15	3150
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	6.3	6.3	6300
	7.0	7	7000
7-1/2	7.5	7.5	7500
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		20	9200
		25	9250
		30	9300

Mechanical Dimensions



*Ratings 5A and less have 0.032” diameter lead;
*Ratings 6A and above have 0.040” diameter lead.

Ordering Information

0652 R XXXX - X X

FUSE TYPE
0652

R = RoHS Compliant

AMPERE RATING
Refer to fuse FGNO explanation table

SAFETY STANDARD CODE
2 = 125V, for 3.5A - 7A, glass tube
3 = 250V for 100mA - 3A, glass tube

QUANTITY & PACKAGING CODE
1 = Cartridge Version , 1K / box
3 = Pigtail Version , 1K bulk pack
6 = Pigtail Version, Tape and Reel, 1500 / reel

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	33/21	N/A
Bulk (Pigtail Type)	N/A	1000	33/23	N/A
Tape & Reel, 10mm Pitch	EIA-296-F	1500	36/26	63

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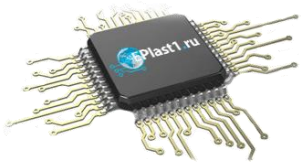
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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