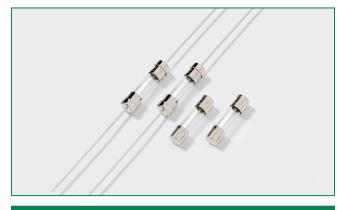
617 Series, 5 × 20 mm, Fast-acting Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range		
	2002010207024438	0.4A-6.3A		
91 °	E10480	0.4A-10A		
(Sfr)	29862	0.4A-6.3A		
	40014952	0.4A-6.3A 8A*, 10A*		
Œ	N/A	0.4A-10A		

*Approval for cartridge versions only

Description

 $5{\times}20\text{mm}$ fast-acting glass body cartridge fuse designed to IEC specification.

Features

- Designed to International (IEC) Standards for use globally
- Available in cartridge and axial lead form
- Meets the IEC 60127-2, Sheet 2 specification for fast-acting fuses
- RoHS compliant and lead-free

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Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

% of Ampere Ampere Rating		OpeningTime			
1500/	0.4A-6.3A	60 minutes, Minimum			
150%	8A-10A	30 minutes, Minimum			
210%	0.4A-6.3A	30 minutes, Maximum			
2 10 70	8A-10A	30 minutes, Maximum			
275.0/	0.4A-6.3A	0.05 sec., Min.; 2 sec. Max.			
275%	8A-10A	0.05 sec., Min.; 2 sec. Max.			
400%	0.4A-6.3A	.01 sec., Min.; 0.3 sec. Max.			
400%	8A-10A	.01 sec., Min.; 0.4 sec. Max.			
10000/	0.4A-6.3A	.02 second, Maximum			
1000%	8A-10A	.04 second, Maximum			

Additional Information



Resources



Samples

Axial Lead & Cartridge Fuses

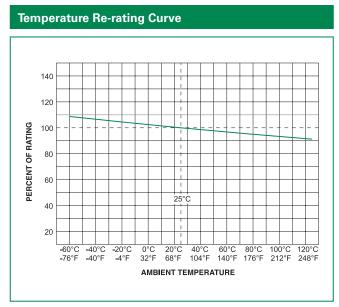
5×20 mm > Fast-Acting > 617 Series



Electrical Characteristic Specifications by Item

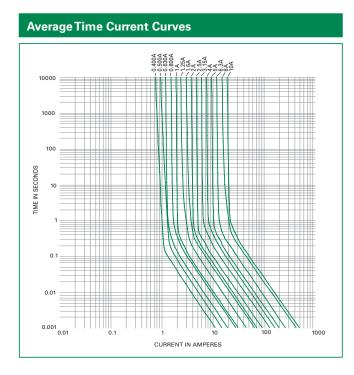
					Maximum	Maximum	Agency Approvals					
Amp Code	Amp Rating (A)	Amp Voltage Interrupting Nominal Cold Nominal Voltage Dro ating Rating Bating Resistance Melting Bated Curre		Voltage Drop at Rated Current	Power Dissipation At 1.5In(W)	()	77	SP .	Œ			
.400	0.4	250		0.2770	0.12500	1200	1.6	х	x	x	x	x
.500	0.5	250		0.2065	0.21500	1000	1.6	x	x	x	x	x
.630	0.63	250		0.1900	0.41000	650	1.6	x	x	x	x	X
.800	0.8	250		0.1203	0.85000	240	1.6	x	x	x	x	x
001.	1	250	35A@250Vac	0.0964	1.04500	200	1.6	x	x	x	x	X
1.25	1.25	250	35A@250Vac	0.0701	2.23000	200	1.6	x	x	x	x	X
01.6	1.6	250		0.0528	4.61500	190	1.6	x	x	x	x	X
002.	2	250		0.0416	5.73000	170	1.6	x	x	x	x	x
02.5	2.5	250		0.0334	9.46000	170	1.6	x	x	x	x	X
3.15	3.15	250		0.0224	17.72000	150	2.5	x	x	x	x	x
004.	4	250	40A@250Vac	0.0165	29.16500	130	2.5	x	x	x	x	X
005.	5	250	50A@250Vac	0.0137	42.79500	130	2.5	x	x	x	x	X
06.3	6.3	250	63A@250Vac	0.0095	62.46500	130	2.5	x	x	x	x	X
008.	8	250	80A@250Vac	0.0068	198.16000	130	4		x		x	x*
010.	10	250	100A@250Vac	0.0063	217.63500	130	4		×		x	×*

* Approval for cartidge versions only.



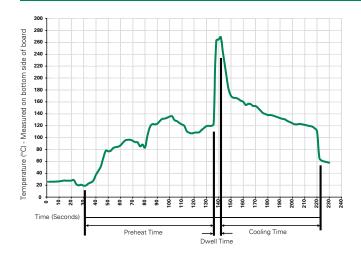
Note:

Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.





Soldering Parameters - Wave Soldering



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-Solder 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.

Product Characteristics

Material	Body: Glass Cap: Nickel–plated brass Leads: Tin–plated Copper		
Terminal Strength	MIL-STD-202, Method 211, Test Condition A		
Solderability	MIL-STD-202 method 208		
Product Marking	Cap1: Brand logo, current and voltage ratings Cap2: Agency approval marks		
Packaging	Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/ reel)		

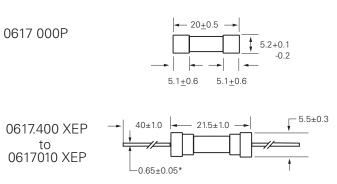
Operating Temperature	-55°C to +125°C		
Thermal Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles –65°C to +125°C)		
Vibration	MIL-STD-202, Method 201		
Humidity	MIL-STD-202, Method 103, Test Condition A. high RH (95%) and elevated temperature (40°C) for 240 hours.		
Salt Spray	MIL-STD-202, Method 101, Test Condition B		

Axial Lead & Cartridge Fuses

5×20 mm > Fast-Acting > 617 Series



Dimensions

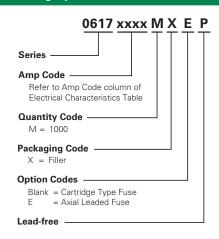


All dimensions in mm

Notes:

* Ratings above 6.3A have 0.8±0.05 diameter lead.

Part Numbering System



Packaging								
Packaging Option	n Packaging Specification Quantity Quantity & Packaging Code		Taping Width					
617 Series								
Bulk	N/A	1000	MX	N/A				
Bulk	N/A	1000	MXE	N/A				
Reel and Tape	EIA 296-E	1000	MRET1	T1=53mm (2.087")				
Bulk	N/A	1000	MXG	N/A				
Bulk	N/A	1000	MXB	N/A				
Bulk	N/A	100	HX	N/A				

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