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242 Series Barrier Network Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range
c FU °us	E10480	0.040 - 0.250 A

Electrical Characteristics

% of Ampere Rating	Opening Time
100%	4 hours, Minimum
300%	10 seconds, Maximum
1000%	0.002 seconds, Maximum

Description

The 242 Series hazardous area barrier network fuse offers a range of fuses designed to enable greater safety for electronic equipment within potentially explosive environments.

Features

- High interrupting rating suitable for intrinsic safety protection of hazardous locations equipment.
- · Available in both axial lead and surface mount.
- RoHS compliant and Halogen-free.

Applications

• Intrinsic saftey electrical equipment; Electrical connections and components; Test equipment

Additional Information







Samples

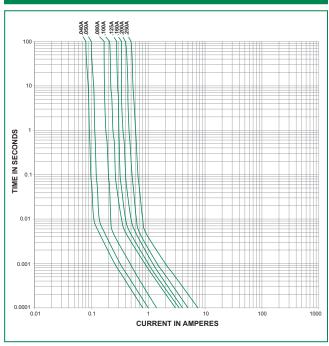
Electrical Characteristics

Ampere Rating (A)	Amp Code	Body Color Coding	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² Sec.)	Agency Approvals
						c Tus
0.040	.040	Gold	4000A @ 250VAC/VDC	16.48	0.000078	×
0.050	.050	Red		11.34	0.000103	X
0.080	.080	Green		8.19	0.000214	X
0.100	.100	Blue		3.60	0.000977	X
0.125	.125	Orange		3.78	0.001026	X
0.160	.160	Violet		3.00	0.00157	X
0.200	.200	Brown		2.68	0.0025	X
0.250	.250	Black		1.6	0.00579	х

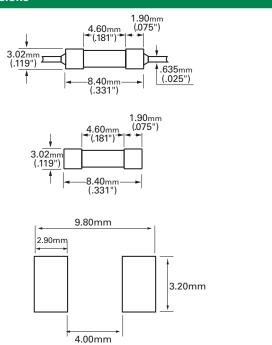
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Average Time Current Curves

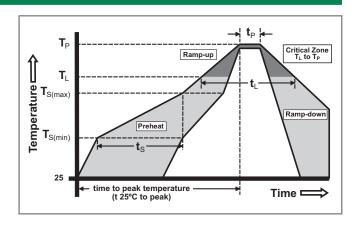


Dimensions



Soldering Parameters

Reflow Condition		Pb – Free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-Temperature Max (T _{s(max)})	200°C	
	-Time (min to max) (t _s)	60 – 180 secs	
Average ramp up rate (Liquidus Temp (T _L) to peak		5°C/second max	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 150 seconds	
PeakTemperature (T _P)		250+ ^{0/-5} °C	
Time within 5°C of actual peakTemp. (t _p)		20 - 40 seconds	
Ramp-down Rate		5°C/second max	
Time 25°C to peakTemperature (T _P)		8 minutes Max.	
Do not exceed		260°C	



Product Characteristics

Operating Temperature	-40°C to 125°C (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.	

Part Numbering System



HAT1 = 100 pcs, Axial Leaded, Ammo Pack T1 Tape UAT1 = 500 pcs, Axial Leaded, Ammo Pack T1 Tape UR = 500 pcs, Surface Mount, Tape & Reel