

242 Series Barrier Network Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range
	E10480	0.050 - 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 operating 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 safety electrical equipment; Electrical connections and components, Test equipment

Additional Information



Datasheet



Resources

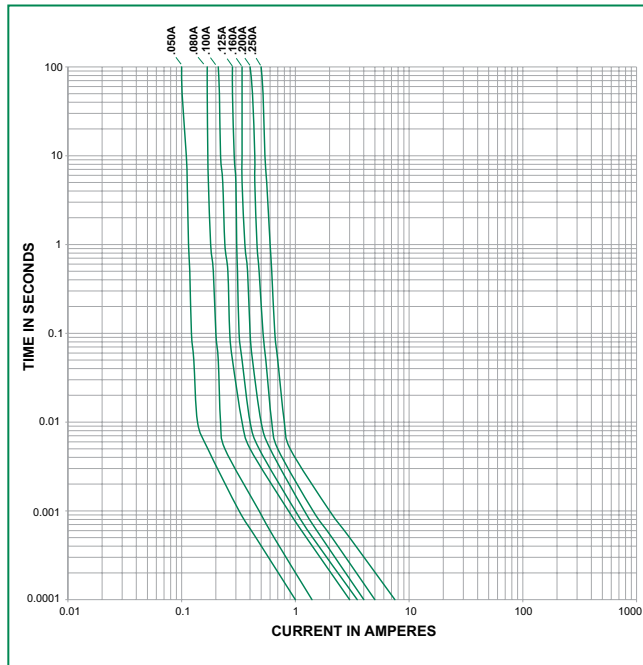


Samples

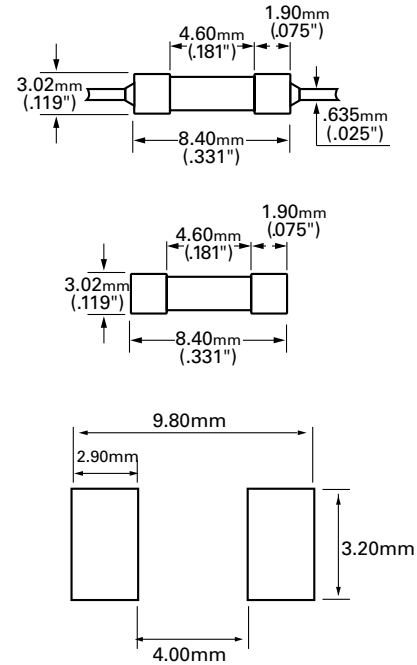
Electrical Characteristics

Ampere Rating (A)	Amp Code	Body Color Coding	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² Sec.)	Agency Approvals
0.050	.050	Red	4000A @ 250VAC/VDC	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	x

Average Time Current Curves

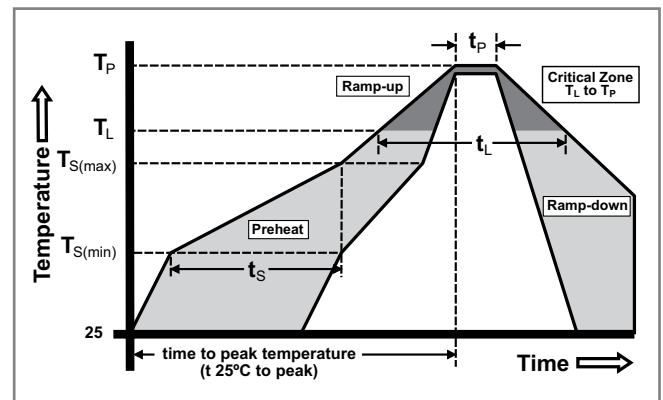


Dimensions



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
Peak Temperature (T_P)		250+0/-5 °C
Time within 5°C of actual peak Temp. (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		260°C



Wave Soldering

260°C, 10 seconds max.

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

0242.050UAT1

SERIES ————
AMP CODE ————
 Refer to Amp Code column in the Electrical Specifications table.
QUANTITY & PACKAGING CODE ————
 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

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