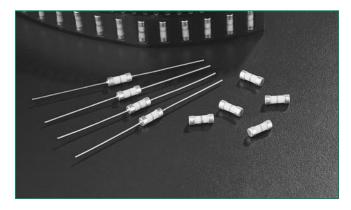
Barrier Network Fuse 242 Series

ittelfuse

Expertise Applied | Answers Delivered



Agency Approvals						
Agency	Agency File Number	Ampere Range				
91	Recognized under the components program of Underwriters Laboratories (JDYX2-10480)	0.050 - 0.250 A				

Electrical Characteristics

% of Ampere Rating	OpeningTime
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

- Meets Barrier Network Standards (EN50020) for hazardous applications.
- High interrupting rating. Meets the

1500A minimum.

AI

• Available in both axial lead and surface mount.

Applications

• Type i protected electrical equipment; Electrical connections and components, Test equipment

Electrical Characteristics

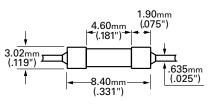
Ampere Rating (A)	Amp Code	Body Color Coding	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I²t (A² Sec.)	Agency Approvals
0.050	.050	Red	4000A @ 250VAC/VDC	11.34	0.000103	х
0.080	.080	Green		8.19	0.000214	х
0.100	.100	Blue		3.60	0.000977	х
0.160	.160	Violet		3.00	0.00157	х
0.200	.200	Brown		2.68	0.0038	х
0.250	.250	Black		1.6	0.00579	х

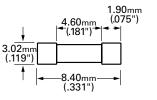
Special Application Fuses 242 Series Barrier Network Fuse

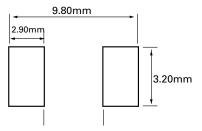
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Average Time Current Curves

Dimensions







Soldering Parameters

0.01

0.001

0.1

1

Reflow Co	ndition	Pb – Free assembly	
	- Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (min to max) (t _s)	60 – 180 secs	
Average ra (T _L) to pea	amp up rate (Liquidus Temp k	5°C/second max	
$T_{S(max)}$ to T_{L}	- Ramp-up Rate	5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
nellow	-Temperature (t _L)	60 – 150 seconds	
PeakTemp	erature (T _P)	250 ^{+0/-5} °C	
Time with	in 5°C of actual peakTemp. (t _p)	20 – 40 seconds	
Ramp-dow	vn Rate	5°C/second max	
Time 25°C	to peakTemperature (T _P)	8 minutes Max.	
Do not exc	ceed	260°C	

10

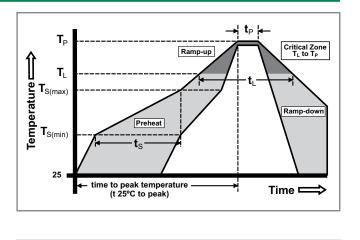
CURRENT IN AMPERES

100

1000

Product Characteristics

Operating Temperature	-40°C to 125°C.	
Thermal Shock	Withstands 5 cycles of – 55° C to 125° C	
Vibration	Per MIL-STD-202F	
Insulation Resistance (After Opening)	Greater than 10,000 ohms.	



Wave Soldering

260°C, 10 seconds max.

Part Numbering System



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Barrier Network Fuse 242 Series
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