

# 249 Brick Fuse



Dimensions(unit: mm)

### Main Characteristics

Brick Fuse; Very Fast-acting(VF)

### Standard

UL 248-1

### Materials

Body: Ceramic

End Caps: Copper plated with silver

### Operating Temperature

-55°C to +125°C

### Stock Temperature

+10°C to +60°C

Relative humidity: ≤75% yearly average  
Without dew, maximum 30 days at 95%

### Vibration Resistance

120 cycles in 1 direction at 1 min. each  
10-55Hz, 3 directions(X, Y, Z) in total  
According to MIL-STD-202 Method 201A

### Soldering Parameters

260°C. ≤10 sec (Wave Soldering)

350°C. ≤3 sec (Hand Soldering)

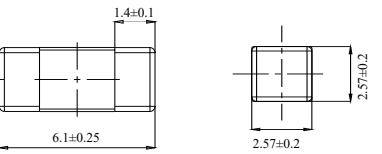
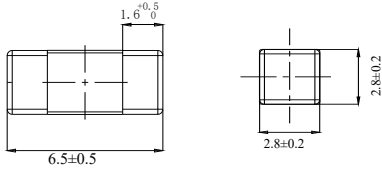
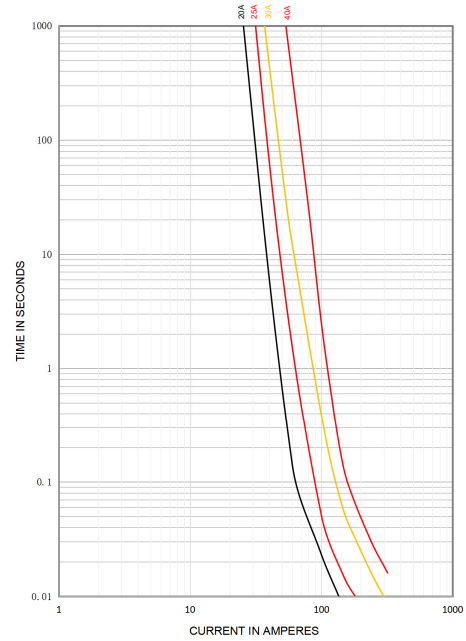
Soldering Peak:

260°C. 10 sec.

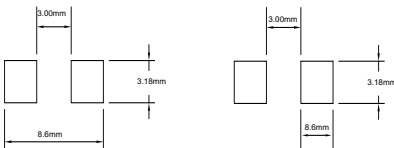
280°C. 5 sec. (IEC 60068-20)

### Average Time Current(I-T Curve)

Average Current (I-T) Curve



### Recommended Pad Layout :



20~30A

40A

Note: Minimum copper layer thickness = 100um.

Recommend solder thickness is 0.15mm.

### Time vs Current Characteristics: UL 248-1

Rated Current	100%	200%
20A~40A	>4h	<60s

cRU<sup>®</sup> US **RoHS** **HF**

### Electrical Characteristics at 25°C

Amp Code	Rated Current	Max Voltage	Breaking Capacity	Typical Voltage Drop (mV)	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	Typical Cold Resistance (mΩ)	Approvals
							cURus
2200	20.00A	72V DC	500A @ 72V DC	100	220	1.98	•
2250	25.00A			70	420	1.53	•
2300	30.00A			60	990	1.25	•
2400	40.00A	63V DC	500A @ 63V DC	50	1600	0.90	•

Note: (1) Permissible continuous operating current is ≤100% at ambient temperature of 23°C (73.4°F)  
(2) Typical pre-arcing I<sup>2</sup>t are measured at 10In current.

### Ordering Information

Series	Amp Code	Supplementary Code	Qty
249			