

Type 10F

High Current Brick Fuses

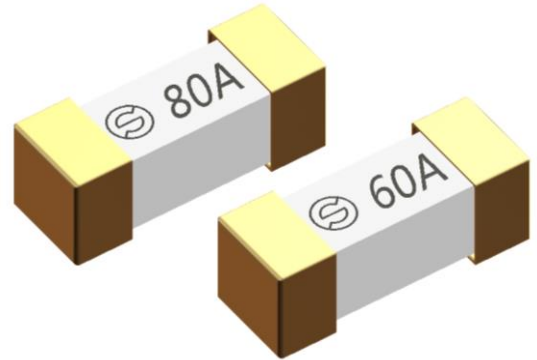


Description

- High current brick fuse
- Surface mount design to save space
- Ceramic square body with end cap
- Designed to UL 248-1/UL 248-13
- Fully compatible with lead-free solder and high temperature profile

Applications

- Telecom power supply
- Cloud computing supply
- Server storage system
- Battery management system
- Energy storage system



Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	350% of Ampere Rating
40A~100A	4 Hour, Min	10Sec.Max

Electrical Characteristic Specifications by Item

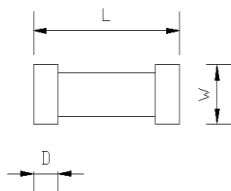
Part No	Rated Voltage(V)	Rated Current(A)	Breaking Capacity (A)	Melting Integral 10I _n min(A ² S)	Alpha Mark	Nominal Cold Resistance(mΩ)	Approvals
							cURus
10F2400	250V AC 250V DC 125V AC 125V DC 72V DC	40A	200A@250V AC 200A@250V DC 200A@125V AC 200A@125V DC 1000A@72V DC	350	Ⓢ 40A	1.7	•
10F2500		50A		500	Ⓢ 50A	1.20	•
10F2600		60A		1200	Ⓢ 60A	0.70	•
10F2800		80A		16000	Ⓢ 80A	0.60	•
10F3100		100A		5200	Ⓢ 100A	0.56	•

*DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

*DC Cold Resistance are measured at <10% of rated current in ambient temperature of 23 degrees

Dimension

Current	L (mm)	D(mm)	W(mm)
40A~100A	12±0.5	2.7±0.2	4.5±0.3



Recommend trace thickness is 3oz, the minimum trace width is 10mm (20A~30A) and 15mm (40A~100A).

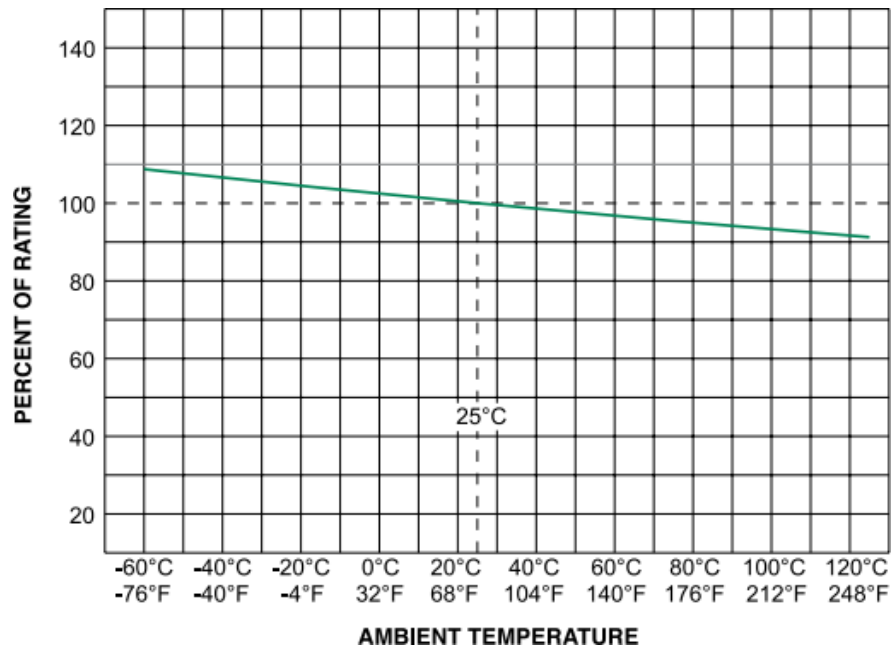
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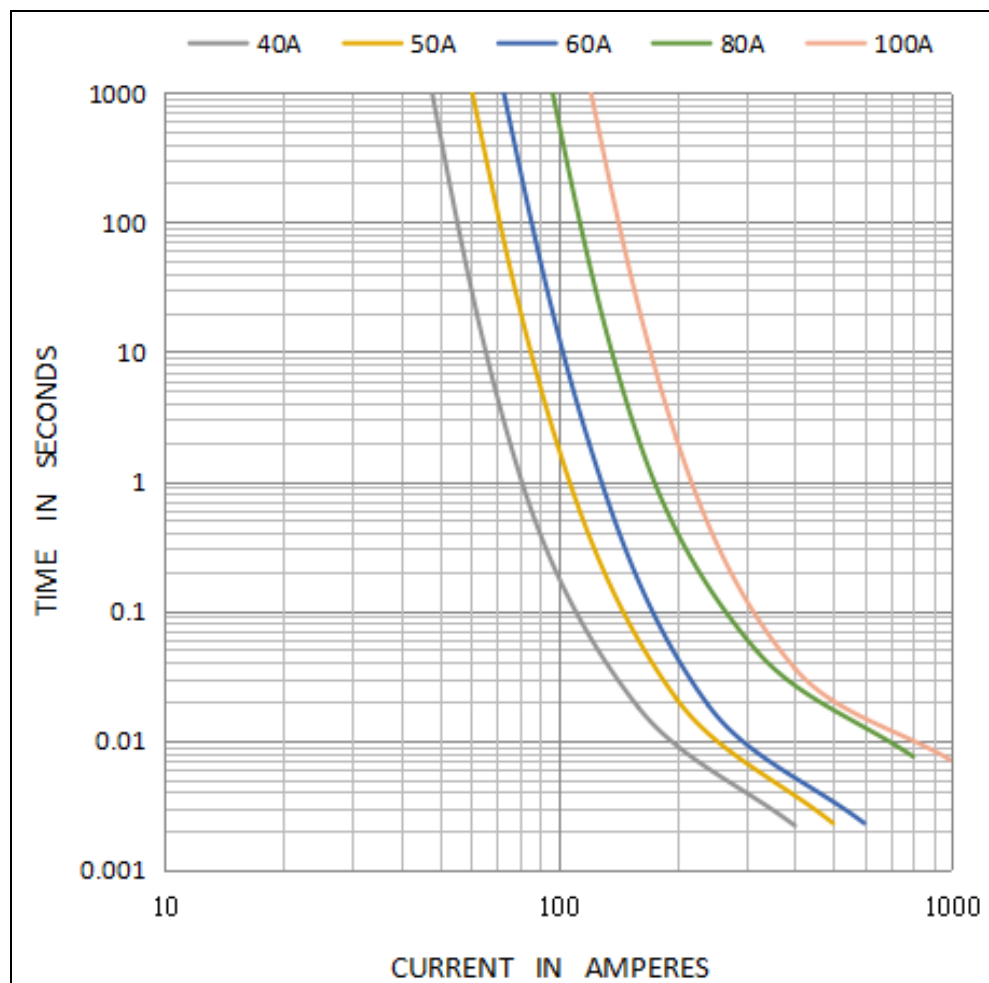


Temperature Re-rating Curve

*Operating temperature: -55 ~ 125°C, with proper correction factor applied



I-T Characteristics Curve



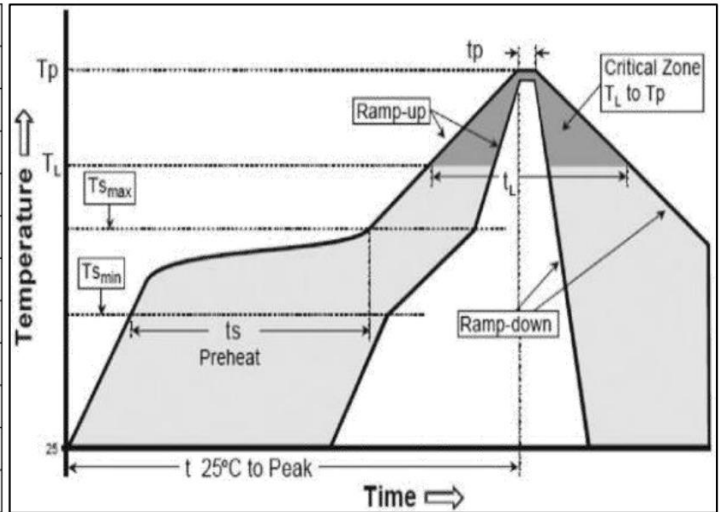
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Solder reflow profile

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
Time within 5°C of actual peak Temperature(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



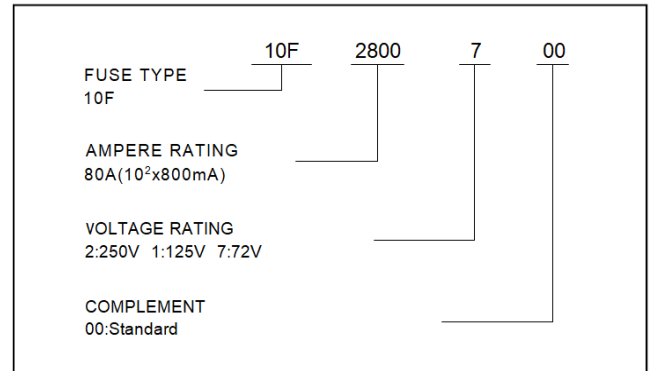
Packaging

Packaging Option	Packaging Specification	Quantity
40A~100A	24mm tape-and-reel	1500PCS

Product Identification

Type	Rated current(A)	Rated voltage(V)
10F	40A~100A	250V/125V/72V

【 Part Numbering System 】 :



Part Number System

10F	2800	7	00
Fuse Type	Ampere Rating($10^2 \times 800mA = 80A$)	2:250V 1:125V 7:72V	Standards and specifications