

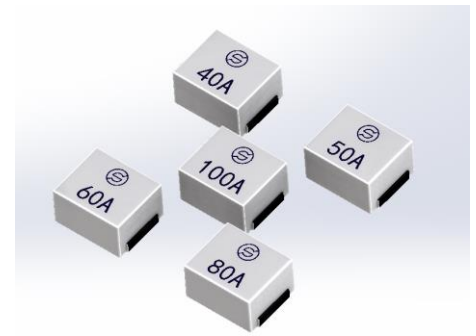
Type 20F

High Power Surface Mount Fuse



Description

- » Widely used in consumer electronics and automotive products
- » Operating temperature: -55 ~ 125°C
- » Low DCR and low power consumption
- » High reliability solder less fuse
- » Single small case size for current rating from 40A to 125A
- » Recognized to UL 248-1/UL 248-13
- » Halogen-free, RoHS compliant and 100% lead-free



Electrical Characteristics For Series

Rating Current	100% of Ampere Rating	250% of Ampere Rating
40A~125A	4 Hour, Min.	60Sec. Max.

Electrical Characteristic Specifications by Item

Catalog Number	Rated Voltage DC	Rated Current (A)	Breaking Capacity(A)dc	Typical Melt I^2t	Nominal Cold DCR*(mΩ)	Alpha Mark
20F2400	80V 75V 63V	40A	1000A@80V DC 1000A@75V DC 1000A@63V DC	320	1.20	Ⓢ 40A
20F2500		50A		500	0.87	Ⓢ 50A
20F2600		60A		720	0.78	Ⓢ 60A
20F2700		70A		1220	0.60	Ⓢ 70A
20F2800		80A		1280	0.58	Ⓢ 80A
20F2900		90A		1620	0.54	Ⓢ 90A
20F3100		100A		2000	0.44	Ⓢ 100A
20F3125		125A		3125	0.40	Ⓢ 125A

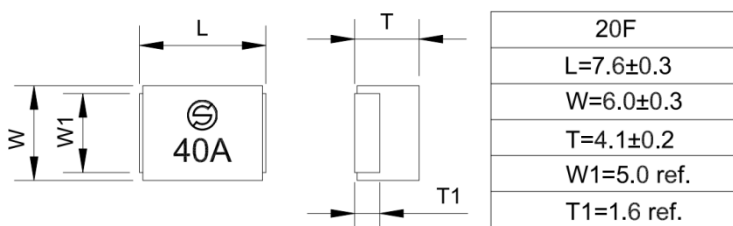
▲AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing)

▲DC Interrupting Rating (Measured at designated voltage, time constant of less than 1000 microseconds, battery source)

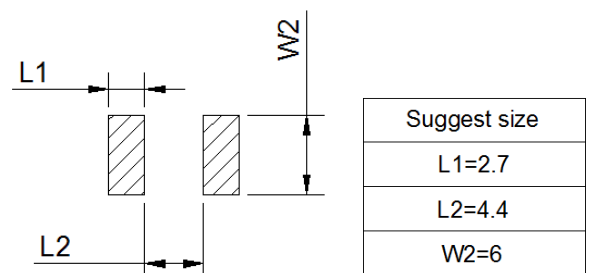
▲Typical Melting I^2t (Measured with a battery bank at Rated DC voltage, 10x-rated current, but not exceeding the interrupting rating, time constant of calibrated circuit less than 1000 microseconds)

▲DC Cold Resistance (Measured at <10% of rated current)

Mechanical Dimensions(mm)



Pad Layout



Type 20F

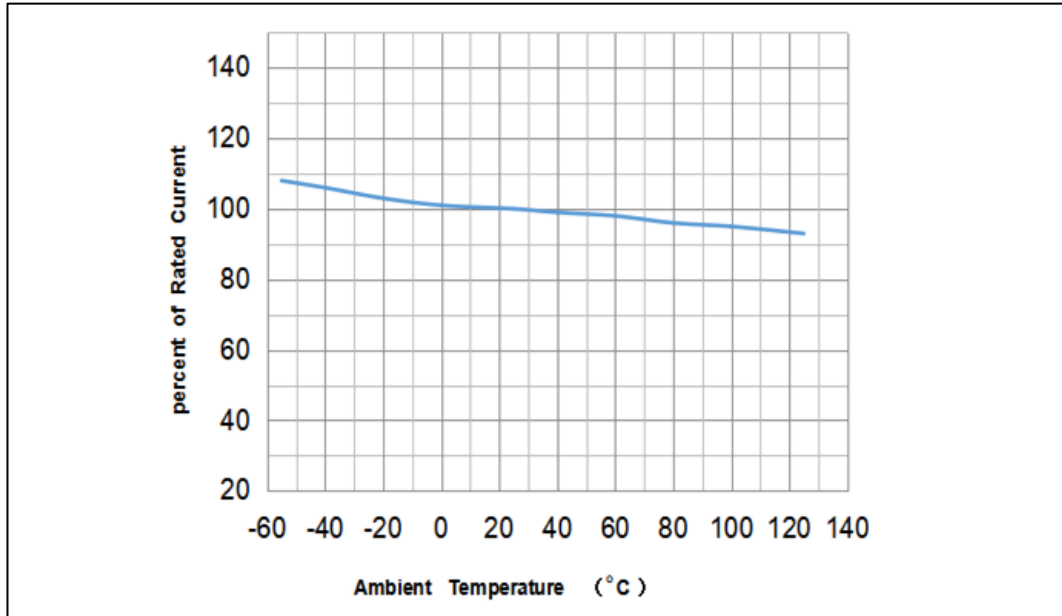
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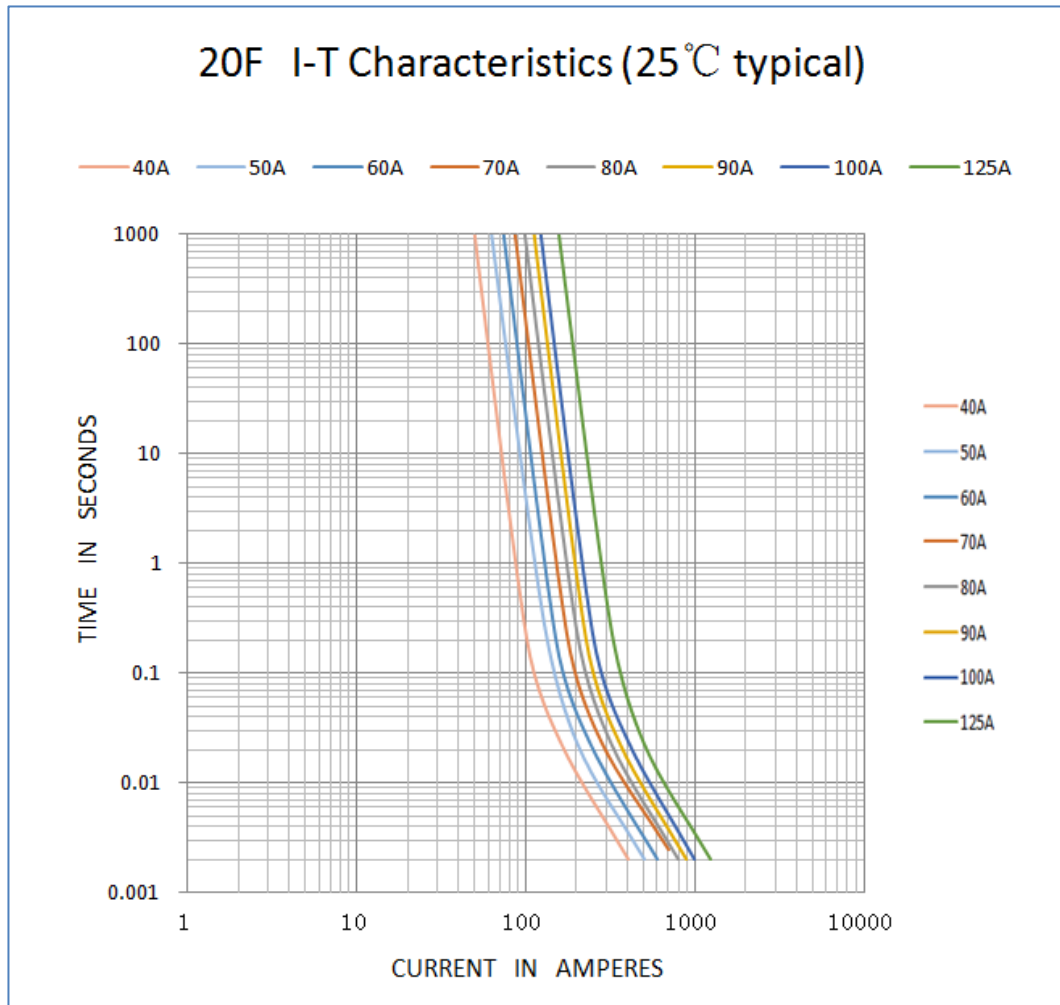
Temperature Re-rating Curve

* Normal ambient temperature: 23+/-3°C

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



Average Time Current Curves



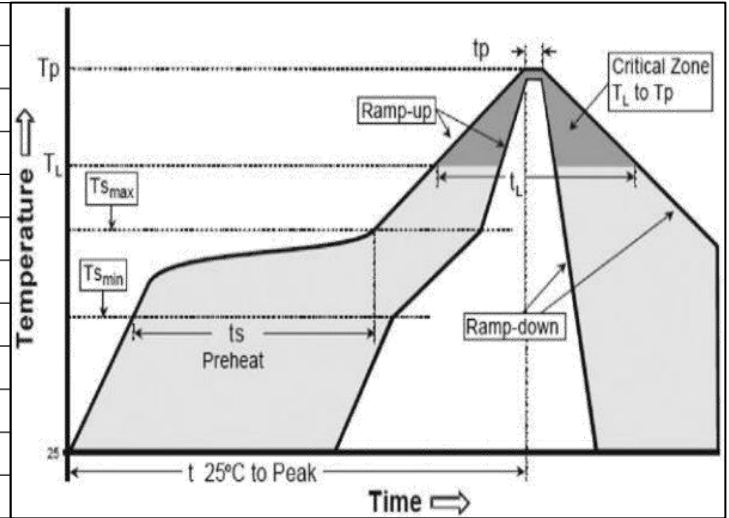
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Solder reflow profile

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
Ts(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



Part Number System

20F	2600	8	00
Fuse Type	Ampere Rating($10^2 \times 600mA=60A$)	8:80Vdc 7:75Vdc 6:63Vdc	Standards and specifications

Packaging

Packaging Option	Packaging Specification	Quantity
20F	tape-and-reel	1000PCS