

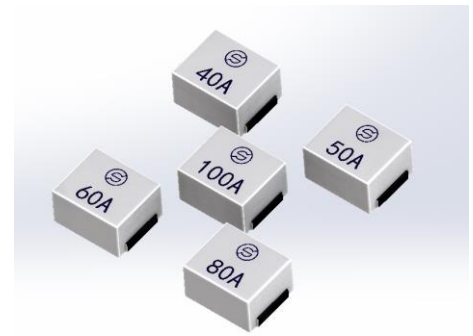
Type 20F

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 20A 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
20A~125A	4 Hour, Min.	60Sec. Max.

Electrical Characteristic Specifications by Item

Part No	Rated Voltage DC	Rated Current (A)	Breaking Capacity(A)dc	Typical Melt I ² t	Nominal Cold DCR*(mΩ)	Alpha Mark
20F2200	80V DC 75V DC 63V DC	20A	1000A@80V DC 1000A@75V DC 1000A@63V DC	160	2.25	20A
20F2300		30A		300	1.40	30A
20F2400		40A		400	1.20	40A
20F2500		50A		820	0.87	50A
20F2500H		50H		1700	1.00	50H
20F2600		60A		1100	0.78	60A
20F2800		80A		2200	0.58	80A
20F3100		100A		3900	0.44	100A
20F3125		125A		5600	0.43	125A

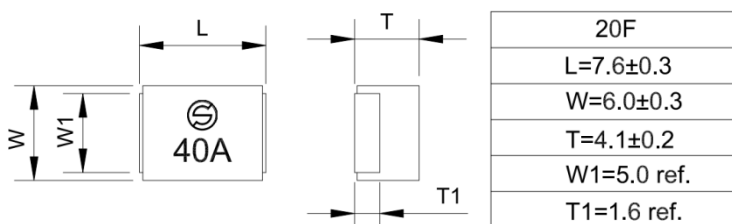
▲AC Interrupting Rating (Measured at designated voltage, 100% power factor random closing)

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

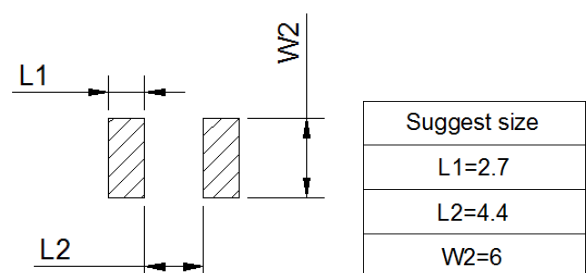
▲Typical Melting I²t (Measured with a battery bank at Rated DC voltage, 10x-rated current, but not exceeding the interrupting rating, time constant of calibrated circuit less than 1000 microseconds)

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

Mechanical Dimensions(mm)



Pad Layout



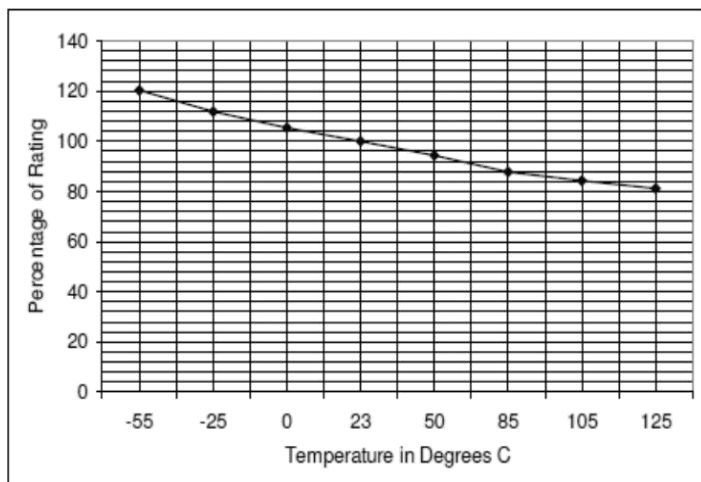
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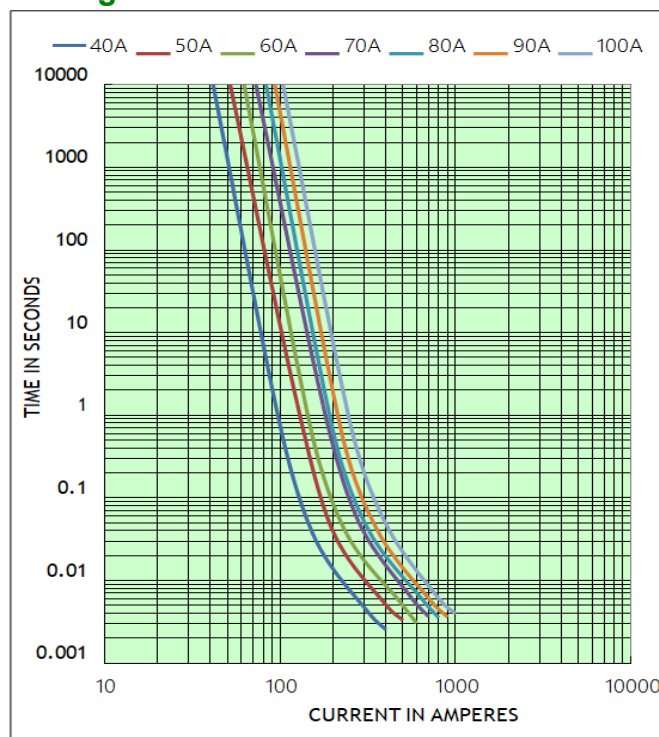


Temperature Re-rating Curve

- * Normal ambient temperature: 23+/-3°C
- * Operating temperature: -55 ~ 125°C, with proper correction factor applied

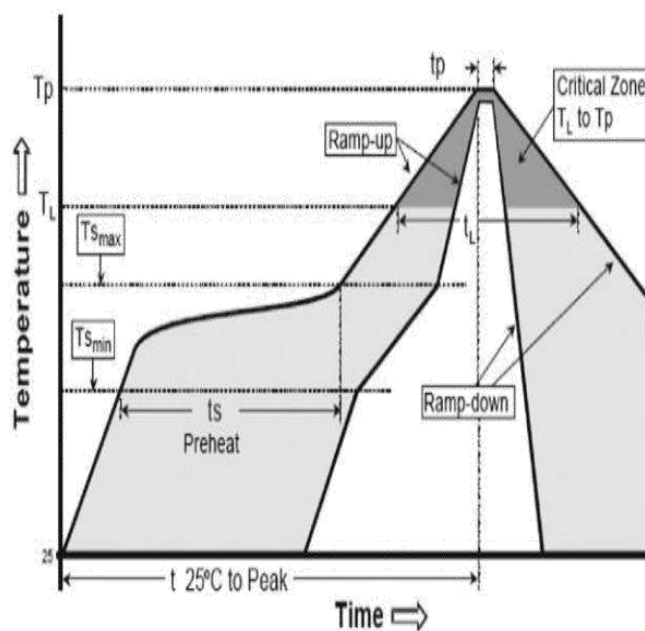


Average Time Current Curves



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



Part Number System

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

Packaging

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