

Type 1032FA

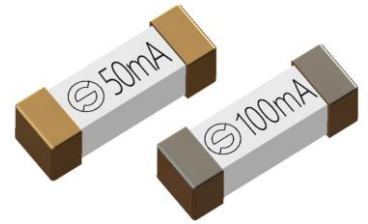
Fast-Acting Surface Mount Fuse



Description

A compact L10.0mm*W3.15mm*D1.7mm fuse provides a space saving alternative to conventional fuse solutions with high interrupting rating for primary and secondary circuit protection up to 250Vac and 250 mA

- ▲Meets electrical performance specifications for intrinsically safe (EN60079-11) applications
- ▲Fast-acting, high interrupting rating of 1500 A at 250 Vac
- ▲Ceramic tube, silver plated brass end cap construction
- ▲Designed to UL 248-1/UL 248-14



Electrical Characteristics For Series

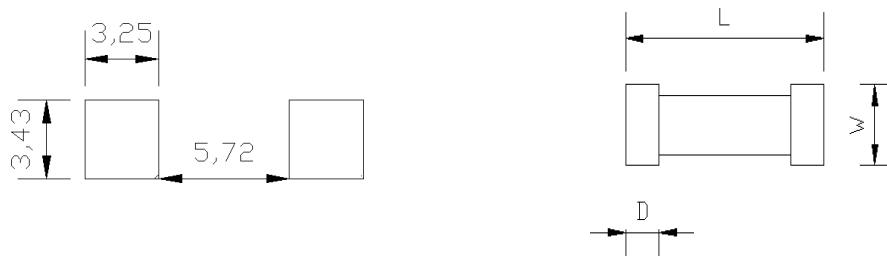
Rating Current	110% of Ampere Rating	300% of Ampere Rating	400% of Ampere Rating	1000% of Ampere Rating
50mA~250mA	4 Hour, Min.	10Sec. Max.	3Sec. Max.	20ms Max.

Electrical Characteristic Specifications by Item

Catalog Number	Rated Current	Rated Voltage AC	Rated Voltage DC	Breaking Capacity (A)ac 1	Breaking Capacity(A)dc 2	Normal Melting $I^2T(A^2sec)$	Normal Cold Resistance (ohms) ²	Alpha Mark
1032FA0040	40mA	250 125	125 80	1500A@250V 300A@125V	1000A@80V 300A@125V	0.000144	17.454	⊕ 40mA
1032FA0050	50mA					0.000220	12.100	⊕ 50mA
1032FA0063	63mA					0.000329	11.192	⊕ 63mA
1032FA0080	80mA					0.000704	7.589	⊕ 80mA
1032FA0100	100mA					0.000858	4.072	⊕ 100mA
1032FA0125	125mA					0.001380	2.801	⊕ 125mA
1032FA0160	160mA					0.001812	2.468	⊕ 160mA
1032FA0200	200mA					0.002372	1.399	⊕ 200mA
1032FA0250	250mA					0.006238	0.774	⊕ 250mA

* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

Dimension

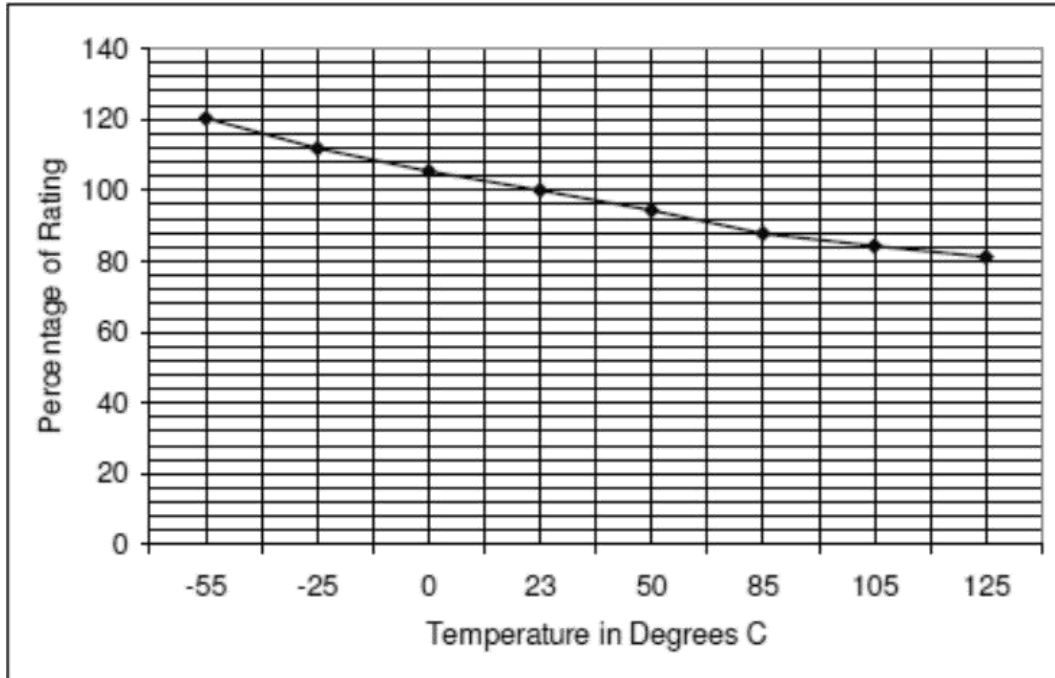


Current	L (mm)	D(mm)	W(mm)
40mA~250mA	10.00±0.3	1.7±0.2	3.15±0.2

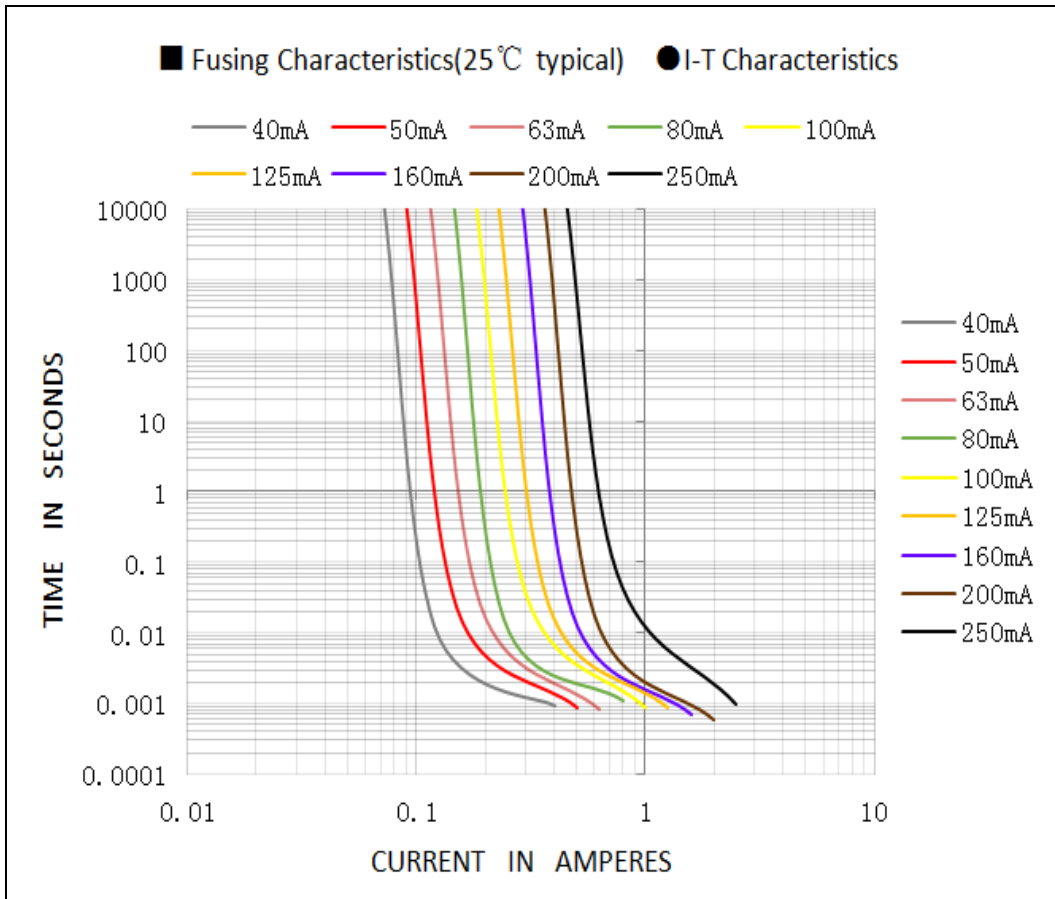
Temperature Re-rating Curve

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

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



Average Time Current Curves

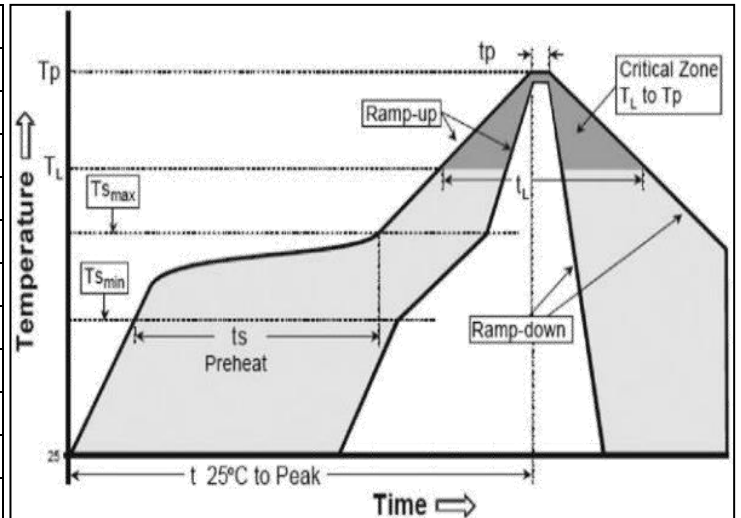


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Solder reflow profile

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

1032FA	0050	2	00	J
Fuse Type	Ampere Rating (10 ⁰ x50mA=50mA)	2:250V 8:80V	Standards and specifications	Gold plated Caps

Packaging

Packaging Option	Packaging Specification	Quantity
1032FA	tape-and-reel	2000PCS