

# Type 0308F

## Fast-Acting Ceramic Tube Fuse



### Description

A compact 3mm x 8.4mm fuse provides a space saving alternative to conventional fuse solutions with high interrupting rating for primary and secondary circuit protection up to 250Vac/dc and 250 mA

- ▲ Meets electrical performance specifications for intrinsically safe (EN60079-11) applications
- ▲ Fast-acting, high interrupting rating of 4000 A at 250 Vac/dc
- ▲ Ceramic tube, silver plated brass end cap construction
- ▲ Optional axial leads (tinned copper axial leads construction)



### Electrical Characteristics For Series

Rating Current	110% of Ampere Rating	300% of Ampere Rating	1000% of Ampere Rating
40mA~250mA	4Hour,Min	10Sec. Max	0.002Sec. Max

### Electrical Characteristic Specifications by Item

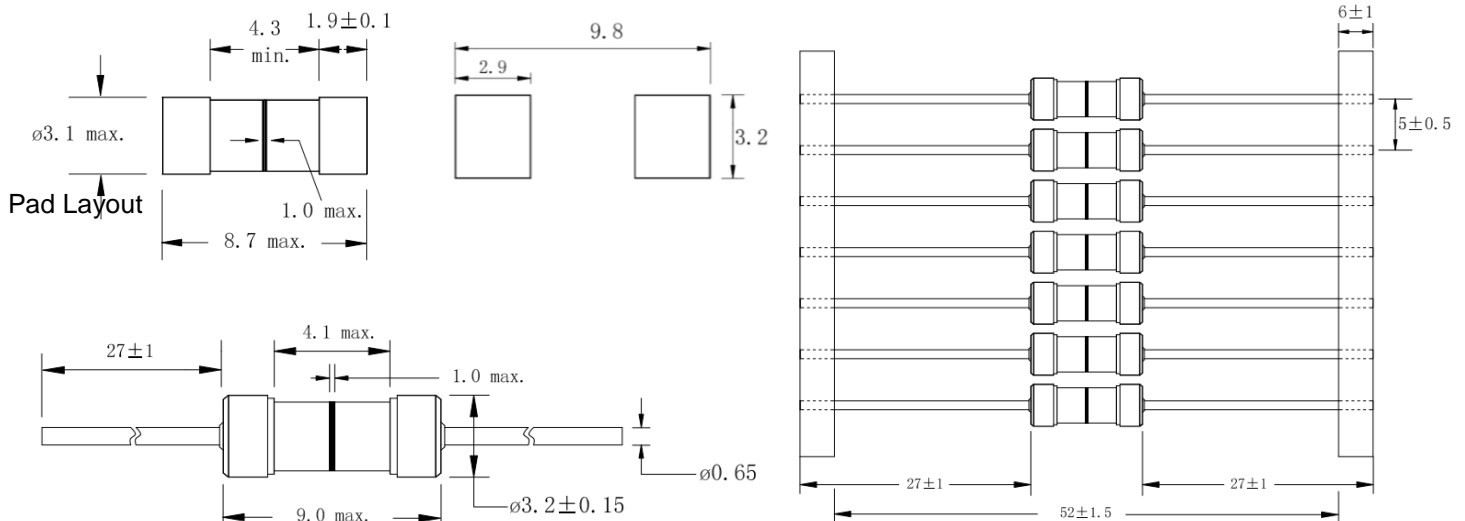
Catalog Number	Rated Current	Rated Voltage	Rated Voltage	Breaking Capacity 1	Norminal Melting $I^2T(A^2sec)^3$	Norminal Cold Resistance(ohms) <sup>2</sup>	Color coding	Agency Approval
								cURus
0308F0040	40mA	250VAC	250VDC	4000A	0.00006	14.2	Grey	●
0308F0050	50mA				0.00010	10.5	Red	●
0308F0063	63mA				0.00012	8.65	Pink	●
0308F0080	80mA				0.00018	5.10	Green	●
0308F0100	100mA				0.00087	2.87	Yellow	●
0308F0125	125mA				0.00134	2.20	Orange	●
0308F0160	160mA				0.00166	2.05	Violet	●
0308F0200	200mA				0.00237	1.01	Brown	●
0308F0250	250mA				0.00530	0.71	Black	●

1 AC Interrupting Rating(4000A,PF=0.4),DC Interrupting Rating measured at rated voltage,time constant 4 microseconds,battery source.

2 DC Cold Resistance (Measured at  $\leq 10\%$  of rated current).

3 Typical  $I^2T$  measured at 10In.

### Dimensions unit:mm



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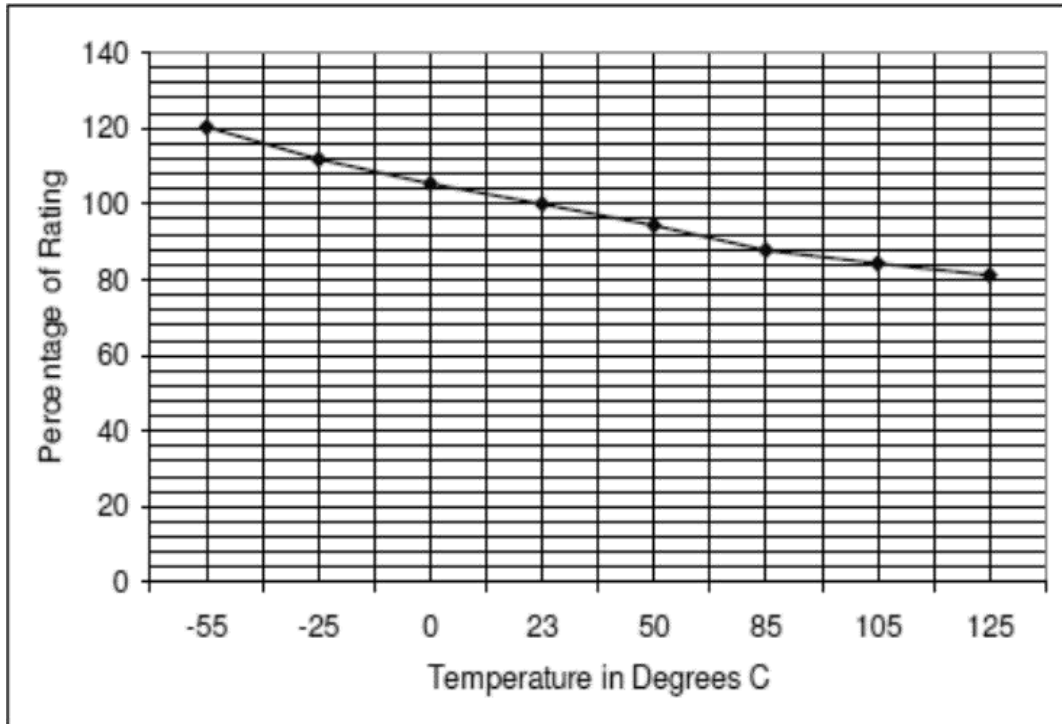
Fast-Acting Ceramic Tube Fuse

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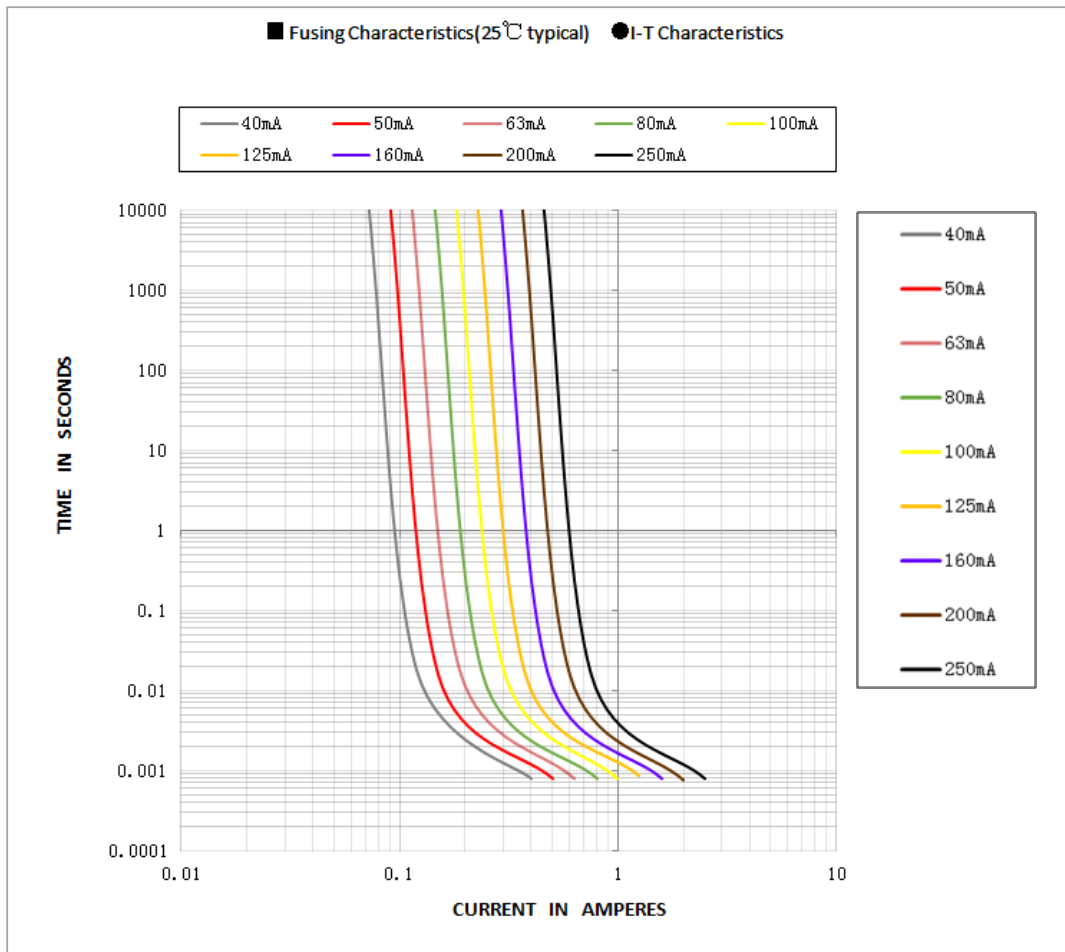
### Temperature Re-rating Curve

\* Normal ambient temperature: 23±3°C

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



### Average Time Current Curves



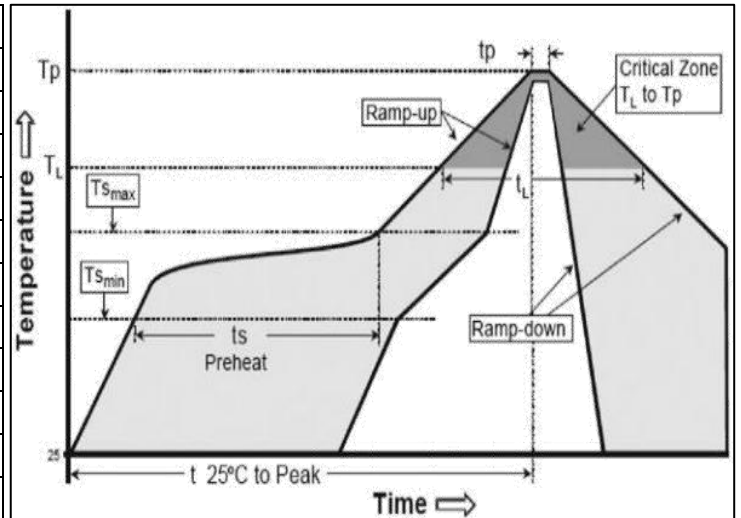
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### Solder reflow profile

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)( $t_s$ )	60-120 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		8 minutes Max.
Do not exceed		260°C



### Part Number System

0308F	0050	2	00
Fuse Type	Ampere Rating( $10^0 \times 50mA = 50mA$ )	250V	00: Tape-and-Reel 01: Axial Lead 02: Axial Lead+Applyepoxy resin to the body 03: Axial Lead Tape

### Packaging

Packaging Option	Packaging Specification	Quantity
0308F	Tape-and-Reel	500 pcs
	Axial Lead	1500 pcs
	Axial Lead Tape	1500 pcs