

# Type RST

## Time Lag Radial Lead Micro Fuse Series

**HF** **Pb** RST Series

RoHS 6 Compliant

### Description

Sub-miniature, time lag type, 250V rated fuses designed, approved and complied with IEC 60127-3, standard sheet 4.

### Features

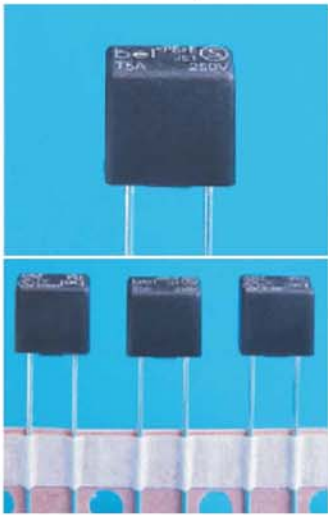
- Time lag (250V AC)
- Meet IEC standard 60127-3, sheet 4
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

### Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer Electronics
- Adapter
- Industrial Controllers

LEAD FREE = **Pb**  
HALOGEN FREE = **HF**



### Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : 100% Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "T", "Current Rating", "250V" & " Appropriate Safety Logos"
	On Label :
	"bel", "RST", "Current Rating", "Voltage Rating", "Interrupting Rating", " Appropriate Safety Logos" and "  ", "  " (China RoHS compliant).

### Electrical Characteristics(IEC-127-3 STANDARD SHEET 4)

### Safety Agency Approvals

Rated Current	1.5 In		2.1 In		2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
80mA to 6.3A inclusive	1 hr.	2 min.	400 ms	10 sec	150 ms	3 sec	20 ms	150 ms		

In clause 9.2, the test voltage for RST ratings from 80mA to 6.3A is 64VDC.

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R. ABILITY
	1304797	80mA to 5A / 250V AC @ 35A or 10 In whichever is greater.
	40011144, 40028321	80mA to 6.3A / 250V AC @ 35A or 10 In whichever is greater.
	E20624	80mA to 6.3A / 277V AC @ 100A
	JET 1037-31007-1001	1A to 5A / 250V AC @ 100A
	2004010207111444	80mA to 5A / 250V AC @ 35A or 10 In whichever is greater.

Specifications subject to change without notice



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### Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A(10-55 Hz X 3 axis / no load).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B(48 hrs).
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition C. Top Side.(260°C;20 sec)
Moisture Resistance	MIL-STD-202G, Method 202G, Method 106G
Operating Temperature	-55°C to +125°C

### Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Voltage Rating (V)	Interrupting Rating	Melting I <sup>2</sup> T <10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)	Agency Approvals				
													
RST 80	80mA	3.5	0.398	250	80mA - 6.3A / 250V AC @ 35A or 10 In whichever is greater	0.01	0.01	0.10	Y	Y	Y		Y
RST 100	100mA	2.3	0.329	250		0.02	0.02	0.11	Y	Y	Y		Y
RST 125	125mA	1.6	0.295	250		0.04	0.04	0.13	Y	Y	Y		Y
RST 160	160mA	1.1	0.252	250		0.07	0.06	0.15	Y	Y	Y		Y
RST 200	200mA	0.73	0.200	250		0.12	0.11	0.17	Y	Y	Y		Y
RST 250	250mA	0.55	0.188	250		0.38	0.41	0.19	Y	Y	Y		Y
RST 315	315mA	0.36	0.152	250		0.60	0.66	0.22	Y	Y	Y		Y
RST 400	400mA	0.25	0.129	250		0.9	1.0	0.25	Y	Y	Y		Y
RST 500	500mA	0.18	0.114	250		1.5	1.7	0.29	Y	Y	Y		Y
RST 630	630mA	0.13	0.109	250		2.4	2.6	0.33	Y	Y	Y		Y
RST 800	800mA	0.095	0.103	250		3.7	4.2	0.38	Y	Y	Y		Y
RST 1	1A	0.070	0.090	250		6	7	0.44	Y	Y	Y	Y	Y
RST 1.25	1.25A	0.053	0.087	250		9	11	0.51	Y	Y	Y	Y	Y
RST 1.6	1.6A	0.038	0.085	250		15	17	0.58	Y	Y	Y	Y	Y
RST 2	2A	0.029	0.084	250		23	27	0.67	Y	Y	Y	Y	Y
RST 2.5	2.5A	0.022	0.084	250		37	43	0.77	Y	Y	Y	Y	Y
RST 3.15	3.15A	0.017	0.074	250		58	69	0.88	Y	Y	Y	Y	Y
RST 4	4A	0.013	0.073	250		92	110	1.02	Y	Y	Y	Y	Y
RST 5	5A	0.010	0.073	250		145	175	1.17	Y	Y	Y	Y	Y
RST 6.3	6.3A	0.008	0.072	250		230	281	1.34	Y		Y		

Consult manufacturer for other ratings

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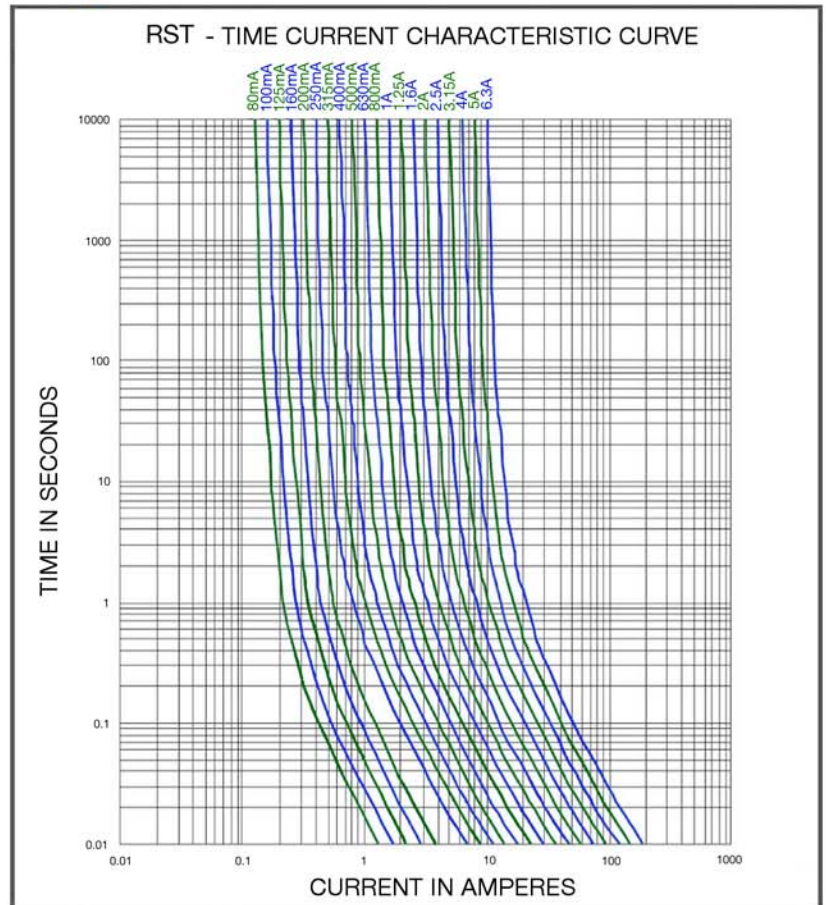
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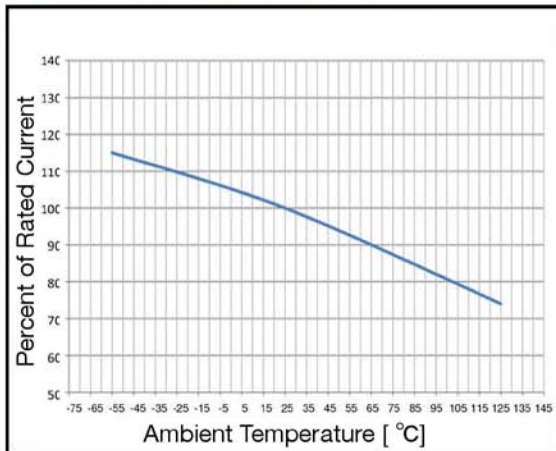
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### Average Time Current Curve

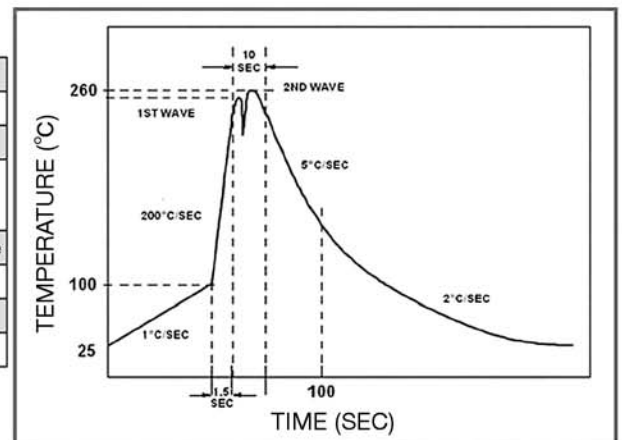


### Temperature Derating Curve



### Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C/ second
Heating rate during preheat	typical 1 - 2°C/ second Max 4°C/ second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T <sub>p</sub>	260°C
Time within +0°C/-5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C/ second max.



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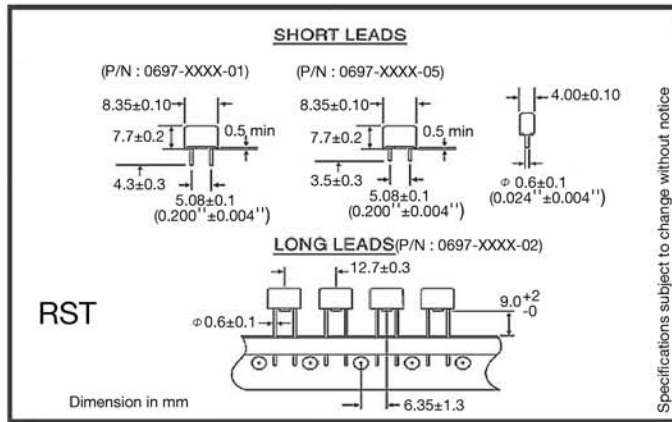
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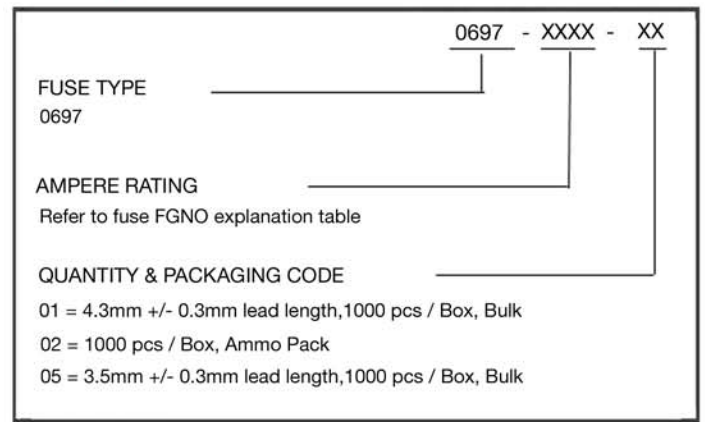
### Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
1/32	0.032	32	0032	1.0	1.0	1	1000
1/25	.040	40	0040	1-1/4	1.25	1.25	1250
1/20	.050	50	0050	1-1/2	1.50	1.5	1500
1/16	.063	63	0063		1.60	1.6	1600
8/100	.080	80	0080		2.0	2	2000
1/10	.100	100	0100	2-1/4	2.25	2.25	2250
1/8	.125	125	0125	2-1/2	2.5	2.5	2500
15/100	.150	150	0150		3.0	3	3000
	.160	160	0160		3.15	3.15	3150
2/10	.200	200	0200	3-1/2	3.5	3.5	3500
1/4	.250	250	0250		4.0	4	4000
3/10	.300	300	0300		5.0	5	5000
	.315	315	0315		6.0	6	6000
3/8	.375	375	0375		6.3	6.3	6300
4/10	.400	400	0400		7.0	7	7000
1/2	.500	500	0500	7-1/2	7.5	7.5	7500
6/10	.600	600	0600		8.0	8	8000
	.630	630	0630			10	9100
7/10	.700	700	0700			12	9120
3/4	.750	750	0750			15	9150
8/10	.800	800	0800			20	9200
						25	9250
						30	9300

### Mechanical Dimensions



### Ordering Information



### Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code
Bulk / bag, 1000 / box	N/A	1000	01 , 05
12.7 mm pitch, On Tape / box	IEC-286-2	1000	02

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