Type RST Time Lag Radial Lead Micro Fuse Series



RoHS 2 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 2 compliant
- Halogen Free
- Lead Free

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer electronics
- Adapter
- Industrial controllers





Materials	Base and Cover : Black thermoplastic, UL 94-V0
Materials	Pins : 100% Matte Tin Plated Copper
	On Fuse :
	"bel", "T" ,"Current Rating", "250V" & "Appropriate Safety Logos"
Marking	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	1.5ln	2.1In	2.75ln		4ln		10ln	
Current	Min	Max	Min	Max	Min	Max	Min	Max
80mA to	1	2	400	10	150	3	20	150
6.3A inclusive	hour	min.	ms	sec	ms	sec	ms	ms

In clause 9.2, the test voltage for RST ratings from 80mA to 6.3A is 63VDC.

Safety Agency	Safety Agency Certificate	Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*			
(2)	1808557		80mA-5A/250V AC @ 35A or 10 In whichever is greater.			
VDE	40011144 40028321		80mA-6.3A/250V AC @ 35A or 10 In whichever is greater.			
c FW °us	E20624	80mA-6.3A/ 250V AC	80mA-6.3A/277V AC @ 100A			
PS	JET 1037-31007-1001	250V AC	1A-5A 250V AC @ 100A			
((S)	2004010207111444		80mA-5A/250V AC @ 35A or 10 In whichever is greater.			
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)						



Specifications subject to change without notice

Type RST

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	Ampere			Voltage and Interrupting	Melting I ² T <10 mSec	Melting I ² T @10 In	Maximum Power	Agency Approvals				
Number	Rating	Resistance (ohms)	(Volt) max.	Ratings	(A ² Sec)			c 91 2 us	(2)	V DE	PS	(8)
RST 80	80mA	3.5	0.398		0.01	0.01	0.10	Υ	Υ	Υ		Υ
RST 100	100mA	2.3	0.329		0.02	0.02	0.11	Υ	Υ	Υ		Υ
RST 125	125mA	1.6	0.295		0.04	0.04	0.13	Υ	Υ	Υ		Υ
RST 160	160mA	1.1	0.252		0.07	0.06	0.15	Υ	Υ	Υ		Υ
RST 200	200mA	0.73	0.200		0.12	0.11	0.17	Υ	Υ	Υ		Υ
RST 250	250mA	0.55	0.188		0.38	0.41	0.19	Υ	Υ	Υ		Υ
RST 315	315mA	0.36	0.152		0.60	0.66	0.22	Υ	Υ	Υ		Υ
RST 400	400mA	0.25	0.129		0.9	1.0	0.25	Υ	Υ	Υ		Υ
RST 500	500mA	0.18	0.114	See Table of Safety	1.5	1.7	0.29	Υ	Υ	Υ		Υ
RST 630	630mA	0.13	0.109	Approvals on Page 1 for	2.4	2.6	0.33	Υ	Υ	Υ		Υ
RST 800	800mA	0.095	0.103	Voltage and associated	3.7	4.2	0.38	Υ	Υ	Υ		Υ
RST 1	1A	0.070	0.090	Interrupting Ratings	6	7	0.44	Υ	Υ	Υ	Υ	Υ
RST 1.25	1.25A	0.053	0.087	95	9	11	0.51	Υ	Υ	Υ	Υ	Υ
RST 1.6	1.6A	0.038	0.085		15	17	0.58	Υ	Υ	Υ	Υ	Υ
RST 2	2A	0.029	0.084		23	27	0.67	Υ	Υ	Υ	Υ	Υ
RST 2.5	2.5A	0.022	0.084		37	43	0.77	Υ	Υ	Υ	Υ	Υ
RST 3.15	3.15A	0.017	0.074		58	69	0.88	Υ	Υ	Υ	Υ	Υ
RST 4	4A	0.013	0.073		92	110	1.02	Υ	Υ	Υ	Υ	Υ
RST 5	5A	0.010	0.073		145	175	1.17	Υ	Υ	Υ	Υ	Υ
RST 6.3	6.3A	0.008	0.072		230	281	1.34	Υ		Υ		

Consult manufacturer for other ratings

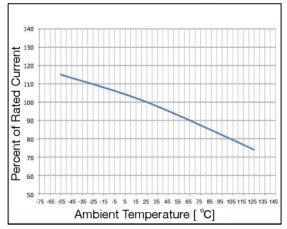


Specifications subject to change without notice

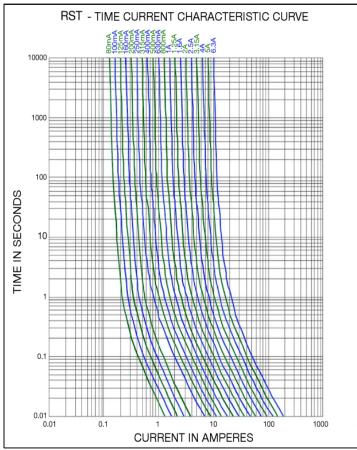
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Type RST

Temperature Derating Curve

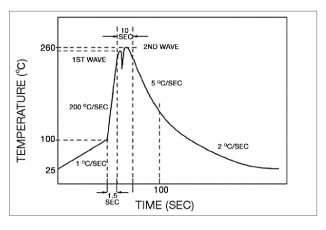


Average Time Current Curve



Soldering Parameters

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





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Type RST

Fuse FGNO Explanation 0697 - [XXXX] X XX

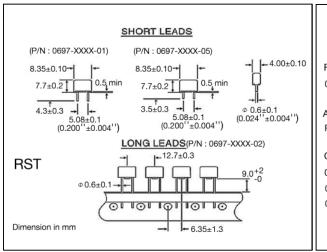
0697=RST; [XXXX]=Ampere Rating; XX=See Ordering Information as below

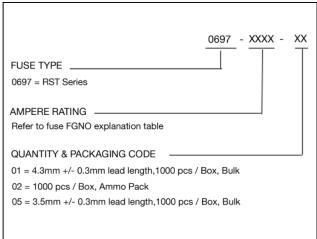
Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
8/100	0.080	80	0080
1/10	.100	100	0100
1/8	.125	125	0125
	.160	160	0160
2/10	.200	200	0200
1/4	.250	250	0250
	.315	315	0315
4/10	.400	400	0400
1/2	.500	500	0500
	.630	630	0630
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.15	3.15	3150
	4.0	4	4000
	5.0	5	5000
	6.3	6.3	6300

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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Rev. RST Jan2019

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bel:

RST 500 AMMO RST 6.3 AMMO RST 3.15 AMMO RST 6.3 RST 500 RST 800 RST 80 RST 200 RST 100 RST 125 AMMO RST 1 RST 250 RST 2.5 RST 315 RST 800 AMMO RST 80 AMMO RST 200 AMMO RST 160 AMMO RST 400 RST 1.25 RST 160 RST 4 AMMO RST 2.5 AMMO RST 1 AMMO RST 3.15 RST 100 AMMO RST 4 RST 125 RST 315 AMMO RST 630 RST 1.6 RST 2 AMMO RST 5 RST 250 AMMO RST 1.25 AMMO RST 2 RST6.3-bulk-short RST5-bulk-short RST315-bulk-short RST315-bulk-short RST400-bulk-short RST400-bulk-short RST400-bulk-short RST630-bulk-short RST630-bulk RST500-bulk-short RST400AMMO RST2-bulk-short RST250-bulk-short RST125-bulk-short RST800-bulk-short RST1-bulk-short RST1.6-bulk-short RST200-bulk-short RST160-bulk-short RST2.5-bulk-short RST800-bulk-short RST3.15-bulk-short R