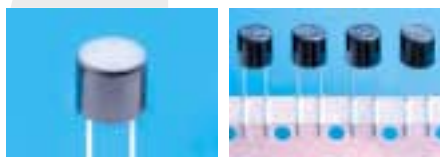


Type MRF

Fast Acting Radial Lead Micro Fuse Series

RoHS Compliant

MRFD0106



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

Rated Current	1.5 In		2.1 In		2.75 In		4 In		10 In
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX
50mA to 6.3A inclusive	1 hr.	30 min.	10 ms	3 sec	3 ms	300 ms	3 ms	300 ms	20 ms

Approvals

Safety Agency Approvals	Amp range / Volt @ I.R. ability
Certificate No. 9535135, 9601126, 9606126, 9710058 License No. 93941	50mA to 5A / 250V AC @ 35A or 10 In whichever is greater
Recognized File No. E20624 Acceptance File No. LR39772	50mA to 6.3A / 250V AC @ 50A
File No. JET1037-31007-1001	1A to 5A / 250V AC @ 100A

RoHS Compliant Product

RoHS Wave Soldering Compatible : (260°C, 10 sec max)

Environmental Specification

Shock Resistance

MIL-STD-202G, Method 213B, Condition I (Sawtooth)
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

Vibration Resistance

10-55 Hz x 3 axis/ no load (MIL-STD-202G, Method 201A)

Salt Spray Resistance

MIL-STD-202G, Method 101E, Condition B (48Hrs)

Solderability

MIL-STD-202G, Method 208H

Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side
(260°C, 20 sec)

Moisture Resistance

MIL-STD-202G, Method 106G

Operating Temperature

-55°C to +125°C

Physical Specification

Materials

Base and Cap: Black thermoplastic, UL 94-V0
Pins: Tin plated copper alloy

Marking

On fuse:
"bel", "F", "Current Rating", "250V" & "Appropriate Safety Logos"

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Melting I ² T < 10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)
MRF 50	50mA	12	0.72	0.001	0.001	0.08
MRF 63	63mA	8.6	0.65	0.001	0.001	0.09
MRF 80	80mA	6.2	0.58	0.002	0.002	0.11
MRF 100	100mA	4.48	0.52	0.003	0.003	0.12
MRF 125	125mA	3.22	0.47	0.006	0.006	0.14
MRF 160	160mA	2.40	0.46	0.010	0.010	0.10
MRF 200	200mA	1.60	0.41	0.017	0.016	0.12
MRF 250	250mA	0.45	0.254	0.029	0.027	0.15
MRF 315	315mA	0.34	0.246	0.05	0.05	0.18
MRF 400	400mA	0.25	0.239	0.08	0.08	0.22
MRF 500	500mA	0.19	0.232	0.15	0.13	0.27
MRF 630	630mA	0.091	0.106	0.12	0.13	0.15
MRF 800	800mA	0.071	0.103	0.21	0.22	0.19
MRF 1	1A	0.055	0.100	0.36	0.36	0.23
MRF 1.25	1.25A	0.043	0.097	0.61	0.59	0.28
MRF 1.6	1.6A	0.034	0.094	1.1	1.0	0.35
MRF 2	2A	0.026	0.091	1.8	1.7	0.42
MRF 2.5	2.5A	0.020	0.088	3.1	2.7	0.51
MRF 3.15	3.15A	0.016	0.086	5.3	4.5	0.62
MRF 4	4A	0.012	0.083	9	8	0.77
MRF 5	5A	0.010	0.081	16	13	0.93
MRF 6.3	6.3A	0.008	0.078	27	21	1.14

Consult manufacturer for other ratings

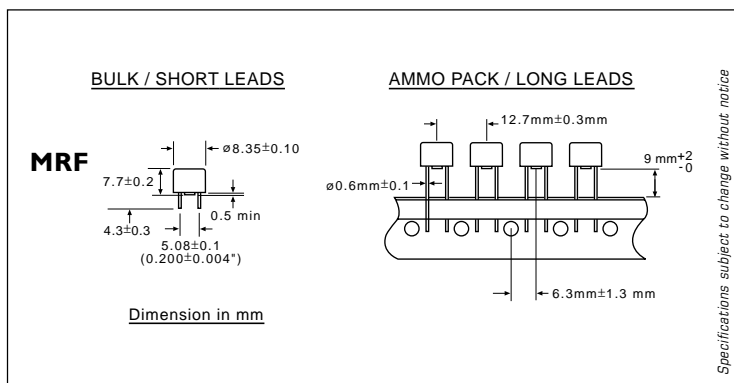
On label:

"bel", "MRF", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "RoHS" for RoHS Version Packaging

Packaging

- In bulk: 1,000 pcs per box
- On Tape: Ammo pack, 1,000 pcs per box per EIA-468-A and IEC-286-2

Mechanical Dimensions



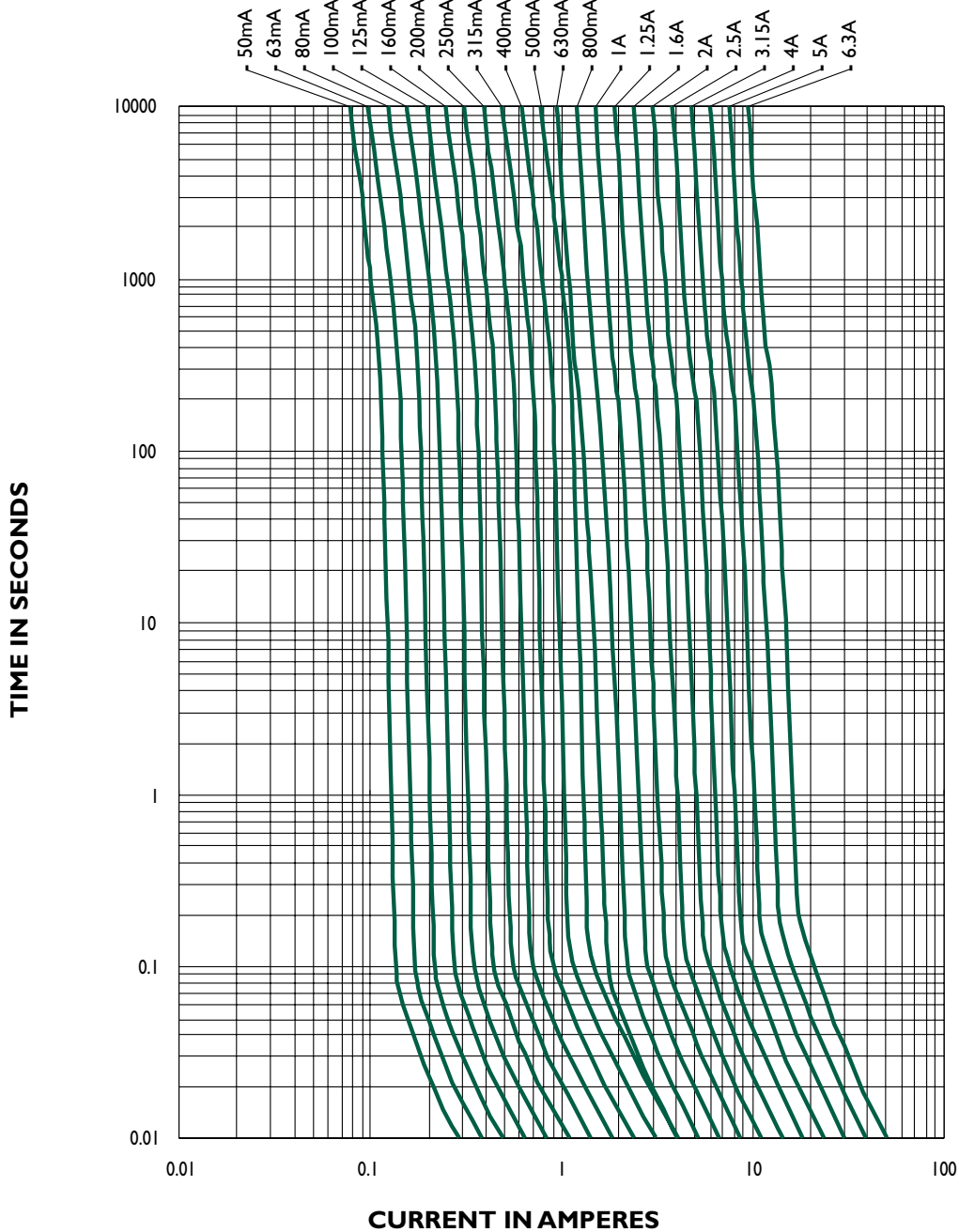
ORDERING INFORMATION SEE LAST 2 PAGES

Type MRF
Fast Acting Radial Lead Micro Fuse Series

RoHS Compliant

MRFC1004

MRF - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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206 Van Vorst Street, Jersey City, NJ 07302
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Fax: 201-432-9542
E-Mail: belfuse@belfuse.com
Website: www.belfuse.com

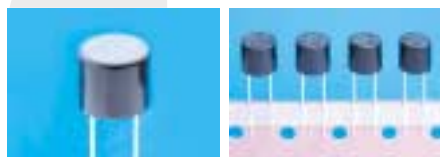
Far East Office
Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office
Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Preston PR1 8UD
Lancashire, U.K
Tel: 44-1772-556601
Fax: 44-1772-888366

Type MRT Time Lag Radial Lead Micro Fuse Series

RoHS Compliant

MRTD0106



Electrical Characteristics (IEC 127-3 STANDARD SHEET 4)

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		

Approvals

Safety Agency Approvals	Amp range / Volt @ I.R. ability
Certificate No. 408882	80mA to 5A / 250V AC @ 35A or 10 In whichever is greater
License No. 139937, 40001000	80mA to 6.3A / 250V AC @ 35A or 10 In whichever is greater
Recognized File No. E20624	80mA to 6.3A / 277V AC @ 100A
Acceptance File No. LR39772	80mA to 6.3A / 250V AC @ 50A
File No. JET1037-31007-1001	1A to 5A / 250V AC @ 100A
Licence No. 2002010207021532	80mA to 6.3A / 250V AC @ 35A or 10 In whichever is greater

RoHS Compliant Product

RoHS Wave Soldering Compatible : (260°C, 10 sec max)

Environmental Specification

Shock Resistance

MIL-STD-202G, Method 213B, Condition I
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

Vibration Resistance

10-55 Hz x 3 axis/ no load (MIL-STD-202G, Method 201A)

Salt Spray Resistance

MIL-STD-202G, Method 101E, Condition B (48Hrs)

Solderability

MIL-STD-202G, Method 208H

Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side
(260°C, 20 sec)

Moisture Resistance

MIL-STD-202G, Method 106G

Operating Temperature

-55°C to +125°C

Physical Specification

Materials

Base and Cover: Black thermoplastic, UL 94-V0
Pins: Tin plated copper alloy

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Melting I ² T < 10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)
MRT 80	80mA	3.28	0.40	0.01	0.01	0.10
MRT 100	100mA	2.23	0.35	0.02	0.02	0.11
MRT 125	125mA	1.52	0.30	0.04	0.04	0.13
MRT 160	160mA	1.03	0.26	0.07	0.06	0.15
MRT 200	200mA	0.70	0.23	0.12	0.11	0.17
MRT 250	250mA	0.52	0.22	0.38	0.41	0.19
MRT 315	315mA	0.38	0.19	0.60	0.66	0.22
MRT 400	400mA	0.28	0.16	0.95	1.00	0.25
MRT 500	500mA	0.211	0.15	1.50	1.70	0.29
MRT 630	630mA	0.156	0.13	2.4	2.6	0.33
MRT 800	800mA	0.115	0.12	3.7	4.2	0.38
MRT 1	1A	0.085	0.11	5.9	6.7	0.44
MRT 1.25	1.25A	0.063	0.10	9	11	0.51
MRT 1.6	1.6A	0.047	0.095	15	17	0.58
MRT 2	2A	0.035	0.090	23	27	0.67
MRT 2.5	2.5A	0.026	0.087	37	43	0.77
MRT 3.15	3.15A	0.019	0.083	58	69	0.88
MRT 4	4A	0.014	0.080	92	110	1.02
MRT 5	5A	0.010	0.077	145	175	1.17
MRT 6.3	6.3A	0.008	0.073	230	281	1.34

Consult manufacturer for other ratings

Marking

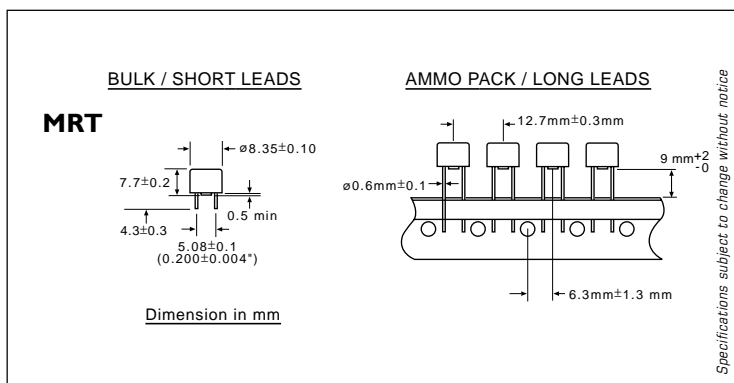
On fuse:
"bel", "T", "Current Rating", "250V" and "Appropriate Safety Logos"

On label:
"bel", "MRT", "Current Rating", "Voltage Rating", "Interrupting Rating",
"Appropriate Safety Logos" and for RoHS Version

Packaging

- In bulk: 1,000 pcs per box
- On tape: Ammo pack, 1,000 pcs per box per EIA-468-A and IEC-286-2 (Long Leads)

Mechanical Dimensions



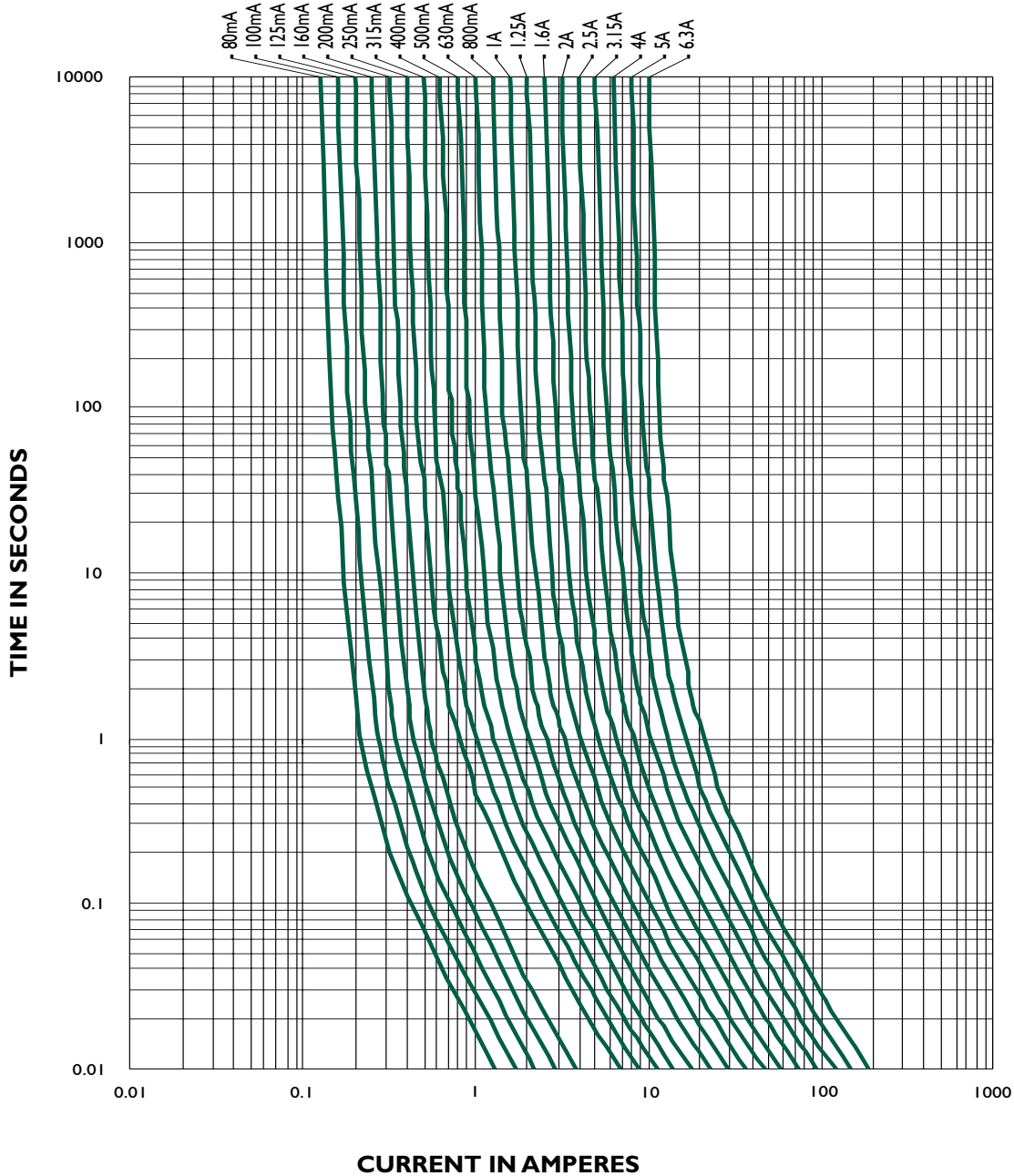
ORDERING INFORMATION SEE LAST 2 PAGES

Type MRT
Time Lag Radial Lead Micro Fuse Series

RoHS Compliant

MRTC1004

MRT - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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 Website: www.belfuse.com

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 Fax: 852-2352-3706

European Office
Bel Fuse Europe Ltd.
 Preston Technology Management Centre
 Marsh Lane, Preston PR1 8UD
 Lancashire, U.K
 Tel: 44-1772-556601
 Fax: 44-1772-888366

Type RST

Time Lag Radial Lead Micro Fuse Series

RoHS Compliant

RSTD1005



Electrical Characteristics (IEC 127-3 STANDARD SHEET 4)

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		

Approvals



Safety Agency Approvals	Amp range / Volt @ I.R.ability
Certificate No. 312375	80mA to 5A / 250V AC @ 35A or 10 In whichever is greater
License No. 40006162 License No. 40011144	80mA to 1.25A / 250V AC @ 35A 800mA / 250V AC @ 35A 1.6A to 4A / 250V AC @ 100A
Recognized File No. E20624	80mA to 6.3A / 277V AC @ 100A
Approved File No. JET1037-31007-1001	1A to 5A / 250V AC @ 100A
License No. 2004010207111444	80mA to 5A / 250V AC @ 35A or 10 In whichever is greater

RoHS Compliant Product

RoHS Wave Soldering Compatible : (260°C, 10 sec max)

Environmental Specification

Shock Resistance

MIL-STD-202G, Method 213B, Condition I
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

Vibration Resistance

10-55 Hz x 3 axis/ no load (MIL-STD-202G, Method 201A)

Salt Spray Resistance

MIL-STD-202G, Method 101E, Condition B (48Hrs)

Solderability

MIL-STD-202G, Method 208H

Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side
(260°C, 20 sec)

Moisture Resistance

MIL-STD-202G, Method 106G

Operating Temperature

-55°C to +125°C

Physical Specification

Materials

Base and Cover:
Black thermoplastic, UL 94-V0

Pins:
Tin plated copper alloy

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Vol) max.	Melting I ² T < 10 mSec (A ² Sec)	Melting I ² T @ 10 In (A ² Sec)	Maximum Power Dissipation (W)
RST 80	80mA	3.30	0.40	0.01	0.01	0.10
RST 100	100mA	2.20	0.35	0.02	0.02	0.11
RST 125	125mA	1.50	0.30	0.04	0.04	0.13
RST 160	160mA	1.00	0.26	0.07	0.06	0.15
RST 200	200mA	0.70	0.23	0.12	0.11	0.17
RST 250	250mA	0.50	0.22	0.38	0.41	0.19
RST 315	315mA	0.38	0.19	0.60	0.66	0.22
RST 400	400mA	0.28	0.16	0.90	1.00	0.25
RST 500	500mA	0.211	0.15	1.50	1.70	0.29
RST 630	630mA	0.156	0.13	2.40	2.60	0.33
RST 800	800mA	0.115	0.12	3.70	4.20	0.38
RST 1	1A	0.085	0.11	5.90	6.70	0.44
RST 1.25	1.25A	0.063	0.10	9.30	10.70	0.51
RST 1.6	1.6A	0.047	0.10	15	17	0.58
RST 2	2A	0.035	0.090	23	27	0.67
RST 2.5	2.5A	0.026	0.087	37	43	0.77
RST 3.15	3.15A	0.019	0.083	58	69	0.88
RST 4	4A	0.014	0.080	92	110	1.02
RST 5	5A	0.010	0.077	145	175	1.17
RST 6.3	6.3A	0.008	0.073	230	281	1.34

Consult manufacturer for other ratings

Marking

On fuse:

“bel”, “T”, “Current Rating”, “250V” and “Appropriate Safety Logos”

On label:

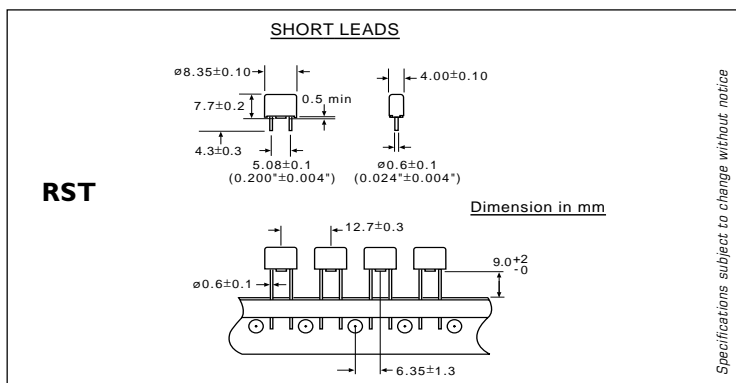
“bel”, “RST”, “Current Rating”, “Voltage Rating”, “Interrupting Rating”, “Appropriate Safety Logos” and “” for RoHS Version

Packaging

1. In bulk: 1,000 pcs per box.

2. On Tape: Ammo pack, 1,000 pcs per box per EIA-468-A and IEC-286-2

Mechanical Dimensions



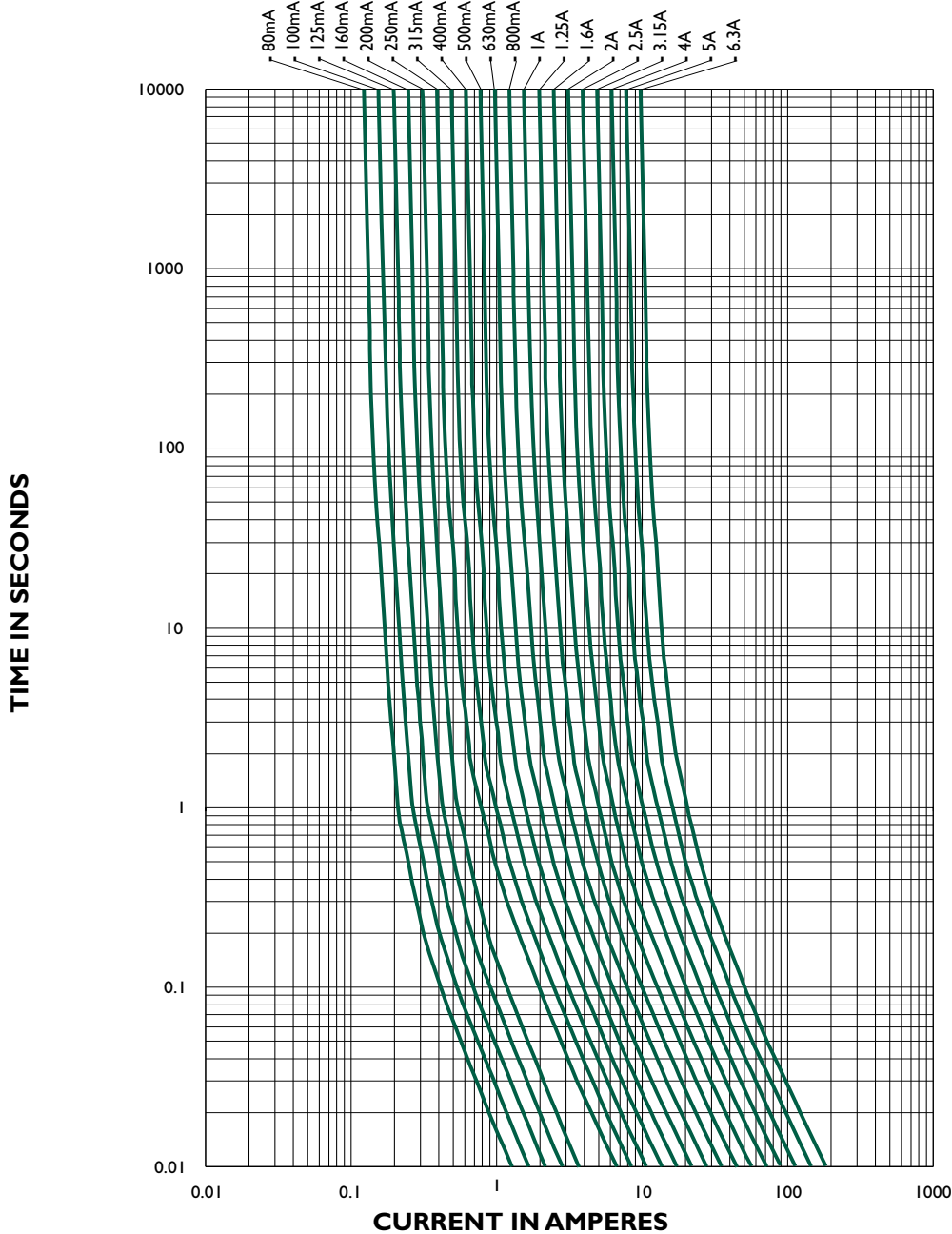
ORDERING INFORMATION SEE LAST 2 PAGES

Type RST
Time Lag Radial Lead Micro Fuse Series

RoHS Compliant

RSTC1004

RST - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

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Fax: 44-1772-888366