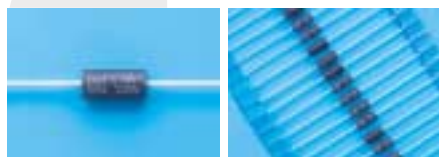


Type MQ Quick Acting Micro Fuse

3 X 7 mm size
RoHS Compliant

MQD1105



Electrical Characteristics

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	N/A	5 Sec

Approvals



Safety Agency Approvals	Amp range / Volt @ I.R. ability
Recognized File No. E20624 Certified File No. LR39772	100mA - 15A/125V @ 50A AC; 300A DC

RoHS Compliant Product

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

Environmental Specification

Shock Resistance

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

Vibration Resistance

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

Salt Spray Resistance

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

Solderability

MIL-STD-202G, Method 208H

Soldering Heat Resistance

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

Moisture Resistance

MIL-STD-202F, Method 106

Operating Temperature

-55°C to 125°C

Physical Specification

Materials

Body:

Molded with UL Recognized epoxy component plastic, UL94-V0

Lead Wire:

Tin plated Copper,
Diameter 0.025" for 7A and less
Diameter 0.032" for rating above 7A

Marking

On fuse:

"bel", "MQ", "Current Rating", "125V" printed in white color

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)
MQ 100	100mA	15.50	3.00	0.0007	0.0006	0.350
MQ 125	125mA	2.20	0.61	0.0012	0.0009	0.087
MQ 150	150mA	1.60	0.54	0.0019	0.0015	0.10
MQ 200	200mA	1.20	0.48	0.003	0.002	0.12
MQ 250	250mA	0.85	0.43	0.005	0.004	0.14
MQ 300	300mA	0.62	0.39	0.009	0.008	0.16
MQ 375	375mA	0.49	0.35	0.013	0.012	0.18
MQ 500	500mA	0.33	0.31	0.025	0.023	0.21
MQ 750	750mA	0.19	0.25	0.062	0.056	0.27
MQ 1	1A	0.13	0.22	0.11	0.10	0.33
MQ 1.5	1.5A	0.07	0.18	0.29	0.25	0.42
MQ 2	2A	0.054	0.24	0.33	0.27	0.33
MQ 2.5	2.5A	0.041	0.22	0.59	0.50	0.40
MQ 3	3A	0.031	0.21	1.1	0.90	0.48
MQ 3.5	3.5A	0.027	0.20	1.4	1.2	0.53
MQ 4	4A	0.023	0.19	1.9	1.6	0.58
MQ 5	5A	0.018	0.17	3.4	3.0	0.71
MQ 7	7A	0.012	0.15	8	7	0.90
MQ 10	10A	0.007	0.098	25	21	1.30
MQ 12	12A	0.006	0.093	41	35	1.50
MQ 15	15A	0.004	0.088	70	63	1.80

Consult manufacturer for other ratings

On label:

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

Packaging

1. In bulk:

1,000 pcs per box

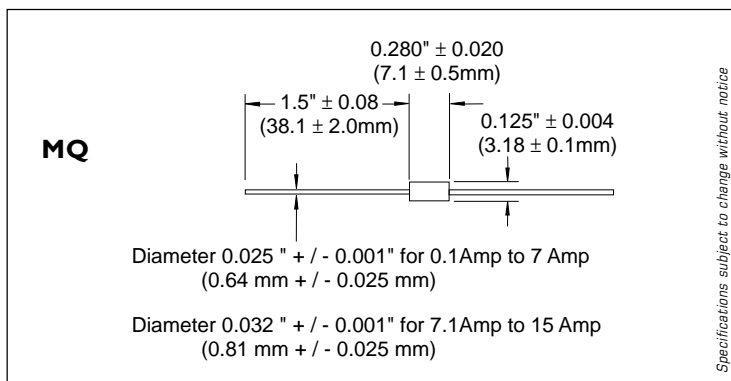
2. On Axial Tape & Reel:

2,500 pcs per reel

3. Tape & Reel specification:

per EIA-296-E & IEC 286-1 @ 5mm Pitch and 52.4mm inside Tape Spacing

Mechanical Dimensions



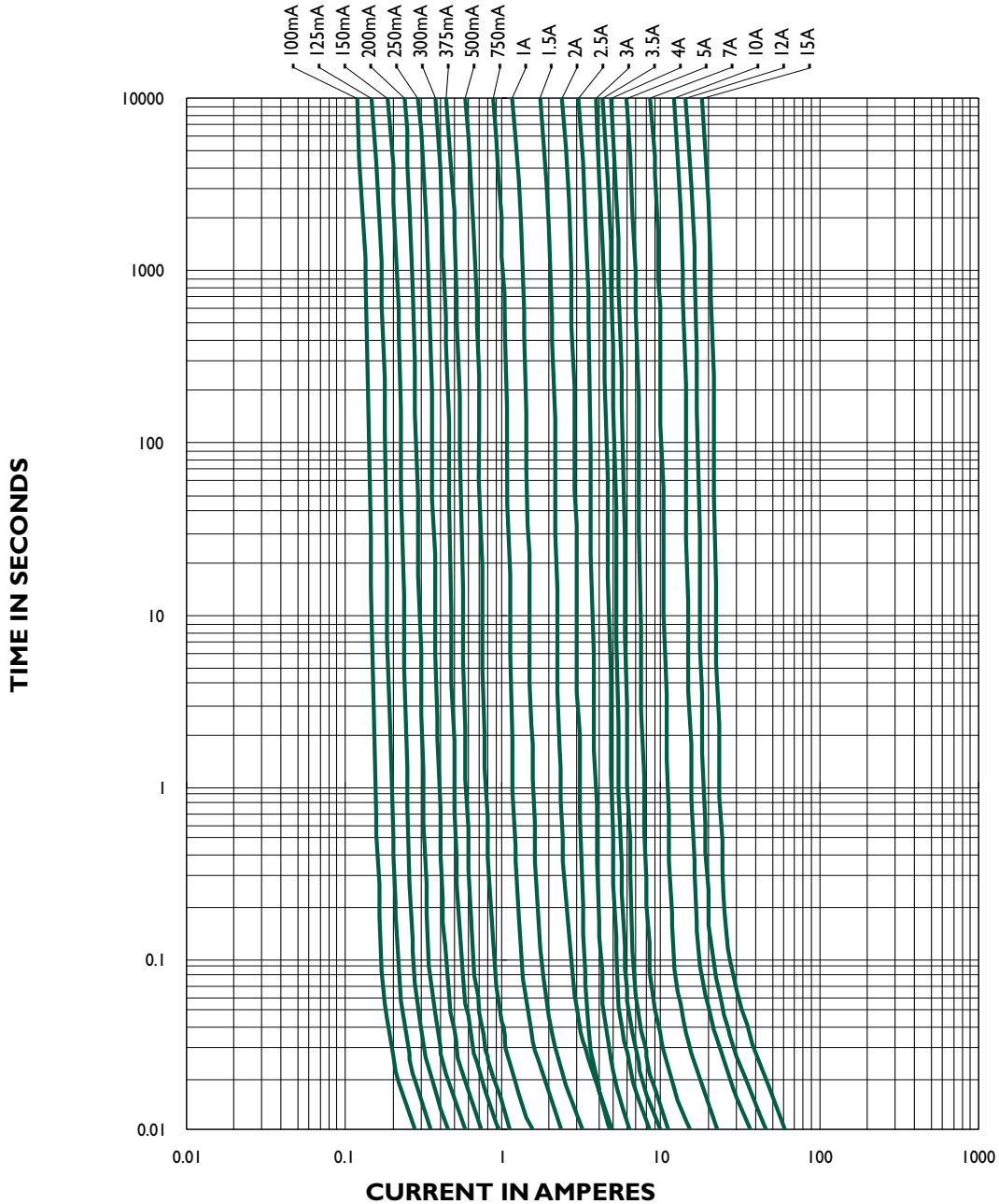
ORDERING INFORMATION SEE LAST 2 PAGES

Type MQ
Quick Acting Micro Fuse

3 X 7 mm size
RoHS Compliant

MQC1004

MQ - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

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

Corporate Office
Bel Fuse Inc.
206 Van Vorst Street, Jersey City, NJ 07302
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: belfuse@belfuse.com
Website: www.belfuse.com

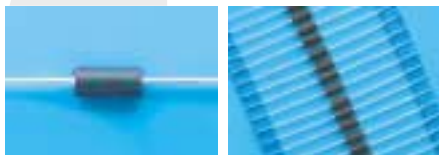
Far East Office
Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

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 MS
Slow Blow Micro Fuse

3 X 7 mm size
RoHS Compliant

MSD1105



Electrical Characteristics (UL/CSA STD 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	N/A	30 Sec

Approvals



Safety Agency Approvals	Amp range / Volt @ I.R. ability
UL US Recognized File No. E20624	250mA - 7A / 125V @ 50A AC ; 300A DC
SF Certified File No. LR39772	

RoHS Compliant Product

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

Environmental Specification

Shock Resistance

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

Vibration Resistance

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

Salt Spray Resistance

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

Solderability

MIL-STD-202G, Method 208H

Soldering Heat Resistance

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

Moisture Resistance

MIL-STD-202F, Method 106

Operating Temperature

-55°C to 125°C

Physical Specification

Materials

Body:
Molded with UL Recognized epoxy component plastic, UL94-V0
LeadWire:
Tin plated Copper, Diameter 0.032" for all ratings

Marking

On fuse:
"bel", "MS", "Current Rating", "125V" printed in green color

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% <i>I_n</i> (Volt) max.	Melting I ² T < 10 mSec (A ² Sec)	Melting I ² T @10 <i>I_n</i> (A ² Sec)	Maximum Power Dissipation (W)
MS 250	250mA	3.20	2.20	0.047	0.042	0.80
MS 300	300mA	2.57	2.02	0.063	0.056	0.82
MS 375	375mA	1.66	1.69	0.111	0.101	0.85
MS 500	500mA	1.07	1.42	0.20	0.18	0.88
MS 750	750mA	0.55	1.09	0.46	0.44	0.94
MS 1	1A	0.36	0.91	0.81	0.78	0.98
MS 1.25	1.25A	0.23	0.77	1.44	1.41	1.01
MS 1.5	1.5A	0.18	0.70	1.9	1.9	1.03
MS 2	2A	0.12	0.59	3.4	3.4	1.08
MS 2.5	2.5A	0.08	0.50	6.0	6.1	1.12
MS 3	3A	0.06	0.45	8.0	8.1	1.14
MS 3.5	3.5A	0.05	0.42	10.6	10.9	1.17
MS 4	4A	0.04	0.38	14	15	1.19
MS 5	5A	0.02	0.29	33	35	1.26
MS 7	7A	0.01	0.25	59	63	1.31

Consult manufacturer for other ratings

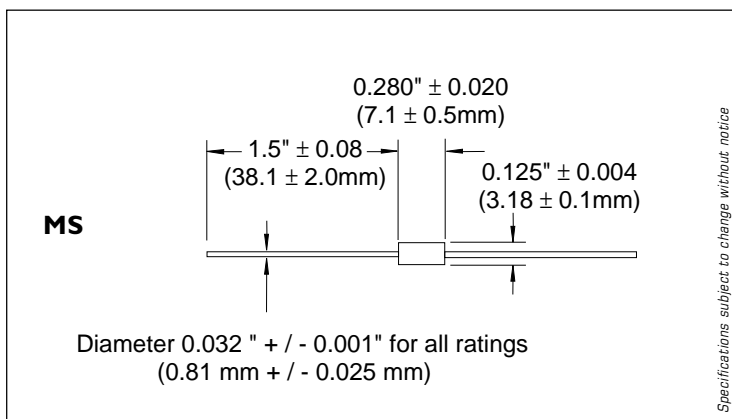
On label:

"bel", "MS", "Current Rating", "Voltage Rating", "Interrupting rating", "Appropriate Safety Logos" and "RoHS Version"

Packaging

- In bulk:
1,000 pcs per box
- On Axial Tape & Reel:
2,500 pcs per reel
- Tape & Reel specification:
per EIA-296-E & IEC 286-1 @ 5mm Pitch and 52.4mm inside Tape Spacing

Mechanical Dimensions



Specifications subject to change without notice

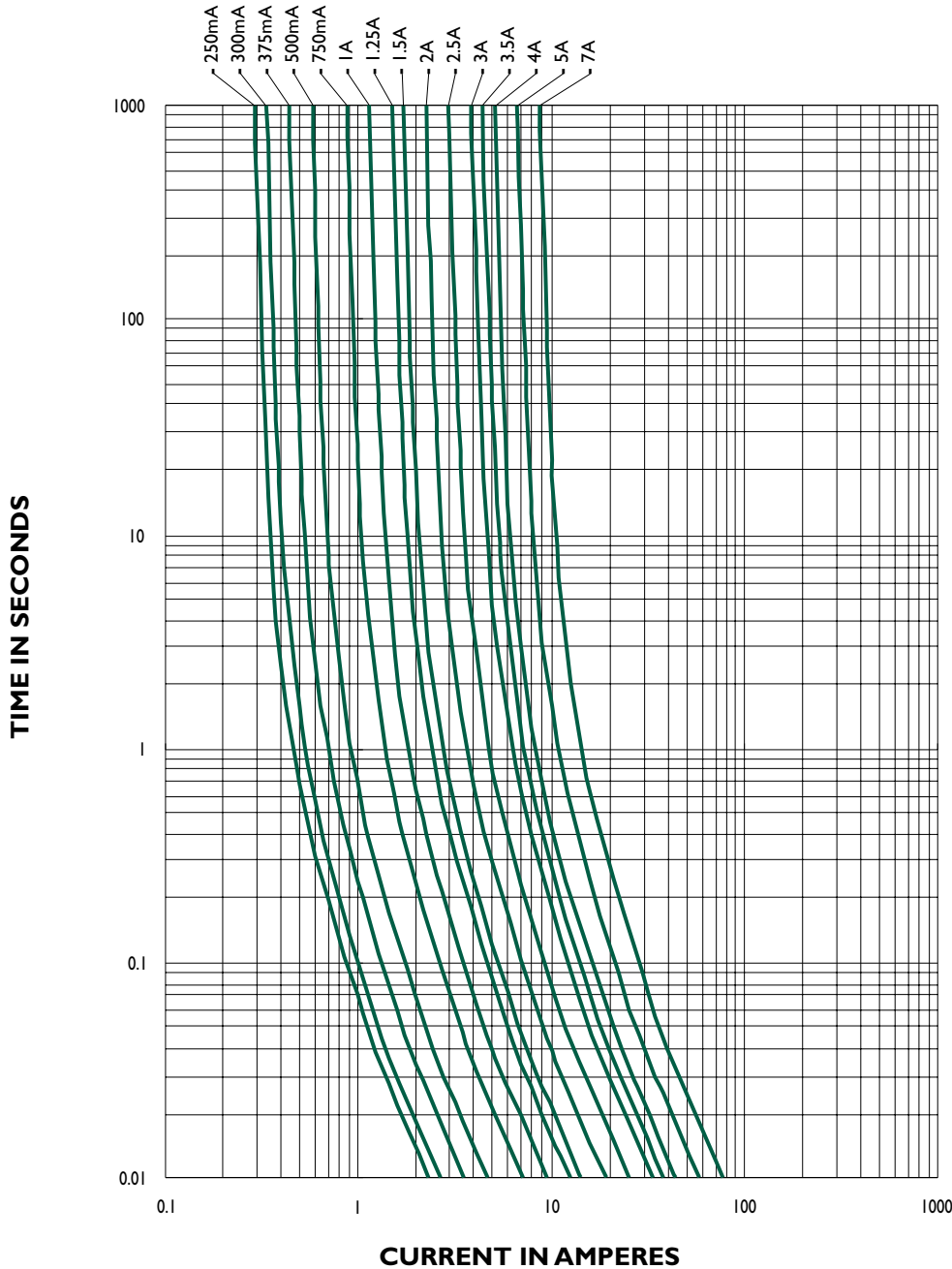
ORDERING INFORMATION SEE LAST 2 PAGES

Type MS
Slow Blow Micro Fuse

3 X 7 mm size
RoHS Compliant

MSC1004

MS - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

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

Corporate Office
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Website: www.belfuse.com

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San Po Kong
Kowloon, Hong Kong
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Fax: 852-2352-3706

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Fax: 44-1772-888366