

## Type MQ Quick Acting Micro Fuse

3 X 7 mm size  
RoHS Compliant

MQD0808



### Electrical Characteristics (UL/CSA STD 248-14)

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:

Matte 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% I <sub>n</sub> (Volt) max.	Melting I <sup>2</sup> T < 10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 I <sub>n</sub> (A <sup>2</sup> 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 "UL", "SP" (China RoHS compliant)

### Packaging

#### 1. In bulk:

1,000 pcs per box

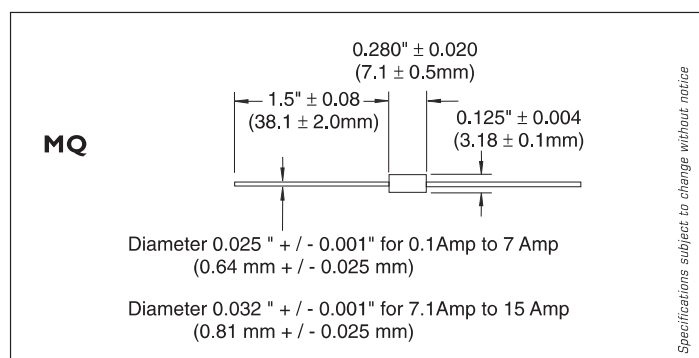
#### 2. On Axial Tape & Reel:

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

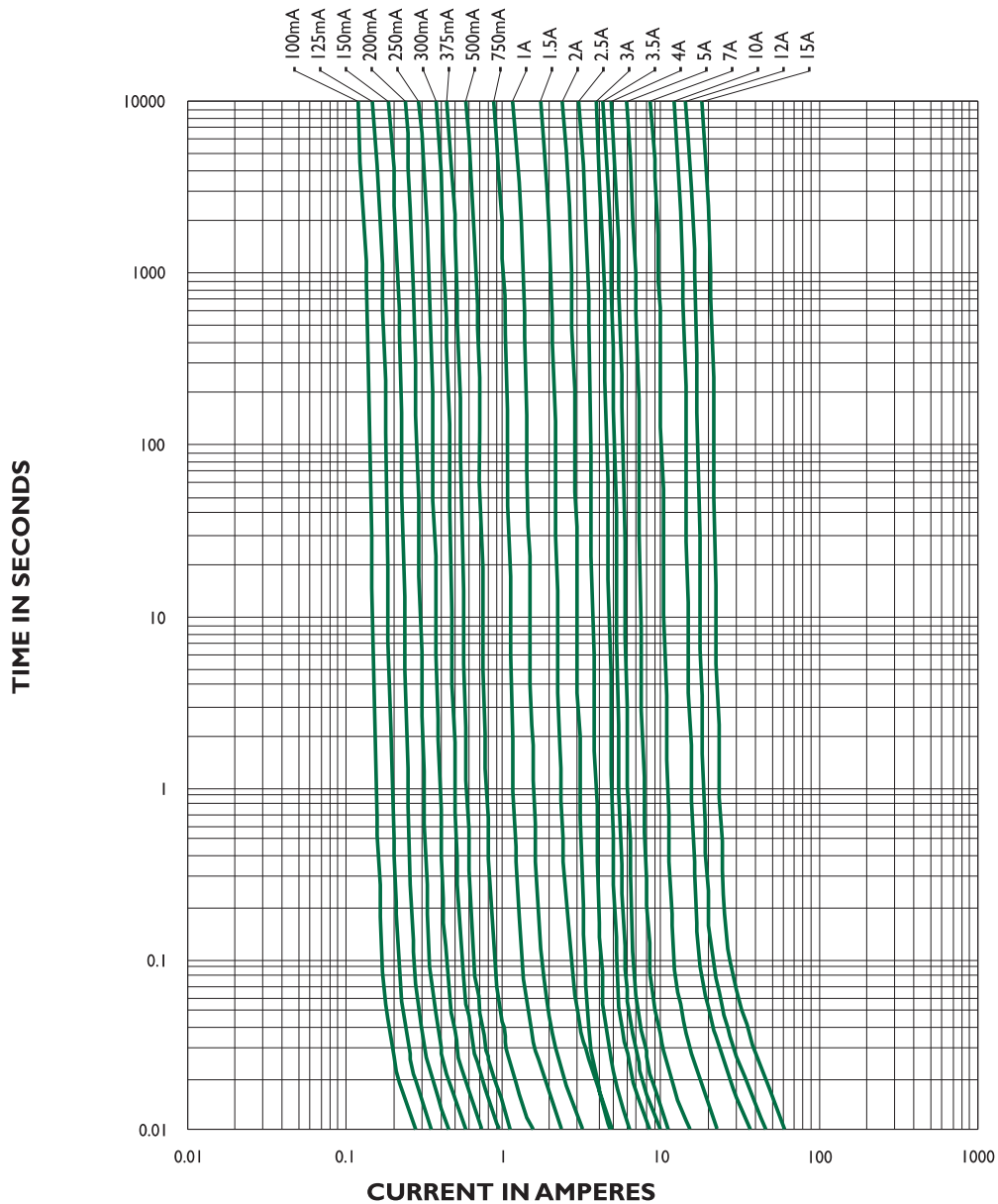
**Type MQ**  
Quick Acting Micro Fuse

3 X 7 mm size  
RoHS Compliant



MQC0808

**MQ - TIME CURRENT CHARACTERISTIC CURVE**



Specifications subject to change without notice

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

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