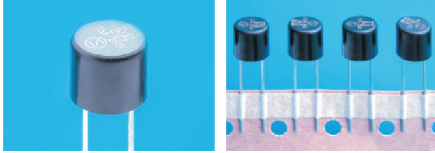


## Type MRF

## Fast Acting Radial Lead Micro Fuse Series

RoHS 6 Compliant



## 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 | 20 ms |     |       |

## Approvals



| Safety Agency Approvals                                               | Amp range / Volt @ I.R. ability                          |
|-----------------------------------------------------------------------|----------------------------------------------------------|
| Certificate No. 714299, 602359<br>518450, 604280<br>License No. 93941 | 50mA to 5A / 250V AC @ 35A or 10 In whichever is greater |
| Recognized File No. E20624<br>Acceptance File No. LR39772             | 50mA to 6.3A / 250V AC @ 50A                             |
| File No. JET1037-31007-1001                                           | 1A to 5A / 250V AC @ 100A                                |

## RoHS 6 Compliant Product

RoHSWave 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: 100% Matte 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% $I_n$ (Volt) max. | Melting $I^2T$ < 10 mSec (A <sup>2</sup> Sec) | Melting $I^2T$ @10 In (A <sup>2</sup> 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

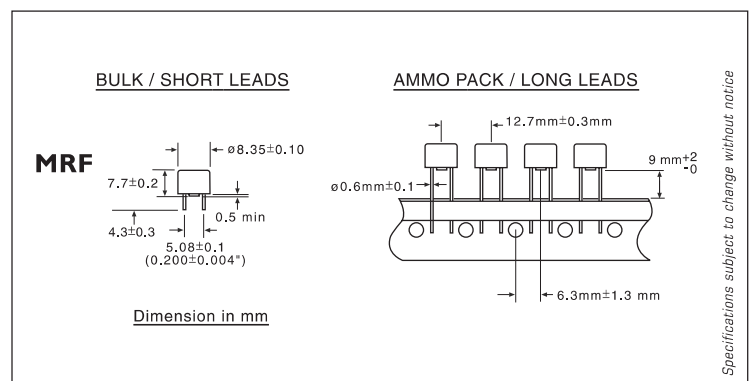
On label:

"bel", "MRF", "Current Rating", "Voltage Rating", "Interrupting Rating",  
"Appropriate Safety Logos" and "M", "E" (China RoHS compliant).

## 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 MRF

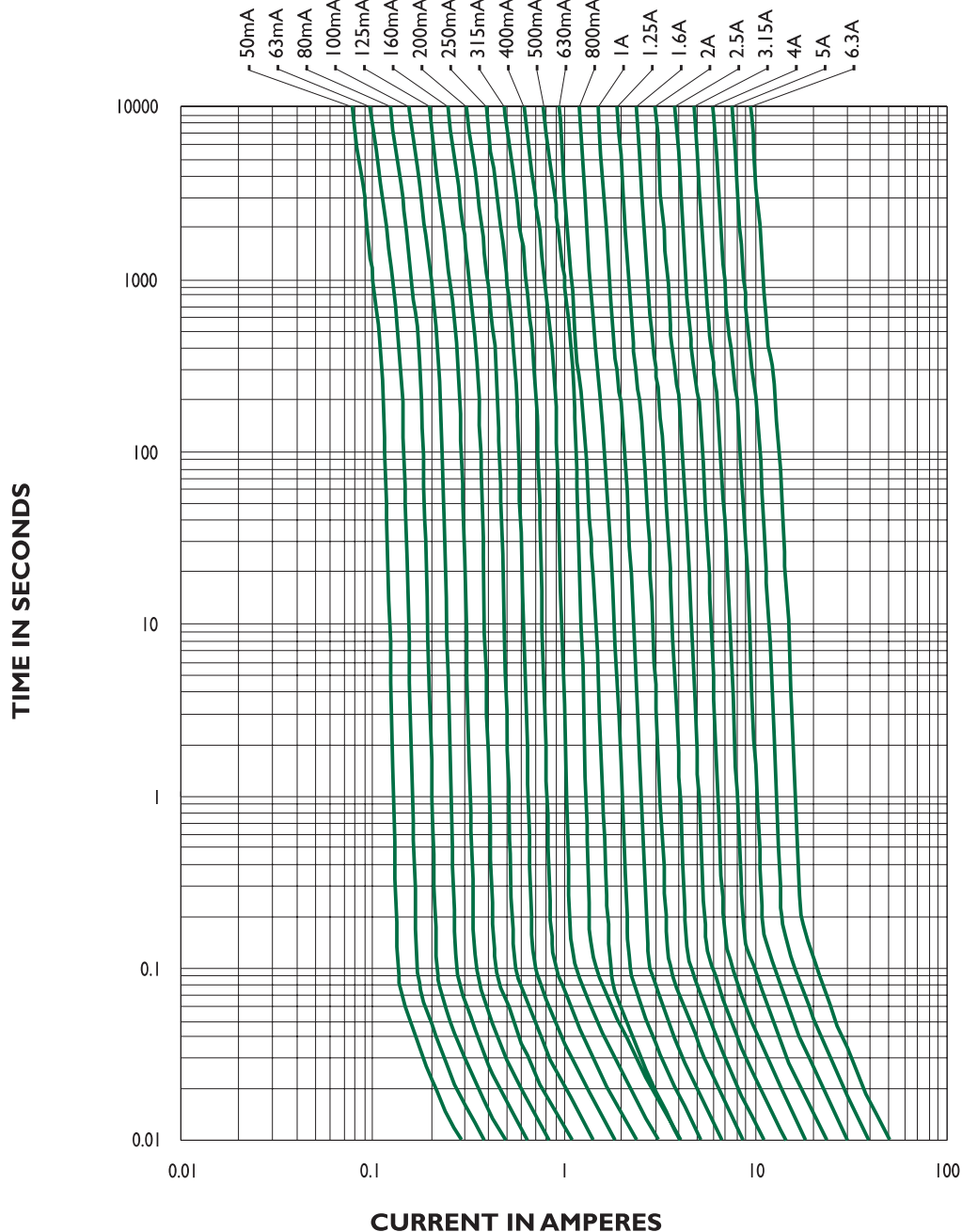
Fast Acting Radial Lead Micro Fuse Series

RoHS 6 Compliant

# bel

MRFC0808

## 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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