

Type MRF

Fast Acting Radial Lead Micro Fuse Series

HF  MRF Series

RoHS 6 Compliant

Description

Sub-miniature, fast-acting type, 250V rated fuses designed, approved and complied with IEC 60127-3, standard sheet 3.

Features

- Fast Acting (250V AC@50A)
- Meet IEC standard 60127-3, sheet 3
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer Electronics
- Adapter
- Industrial Controllers

LEAD FREE = 
HALOGEN FREE = 

Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : 100% Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "F", "Current Rating", "250V" & "Appropriate Safety Logos"
	On Label :
	"bel", "MRF", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "  ", "  (China RoHS 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		

In clause 9.2, the test voltage for MRF ratings from 80mA to 6.3A is 64VDC.

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R. ABILITY
	1026142;1026141 1026139;1111865	50mA - 5A / 250V AC @ 35A or 10 In whichever is greater
	40017420	
	40028500	6.3A / 250V ac @ 63A
	LR39772	50mA - 6.3A / 250V AC @ 50A
	E20624	50mA - 6.3A / 350V AC @ 100A
	JET 1037-31007-1001	1A - 5A / 250V AC @ 100A

Specifications subject to change without notice



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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 Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	Voltage Rating (V)	Interrupting Rating	Melting I ² T <10 mSec (A ² Sec)	Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals					
									UL	CSA	S	DVE	VDE	PS
MRF 50	50mA	11.9	0.73	250	(50mA - 6.3A / 35A @ 250VAC or 10 In) whichever is greater	0.001	0.001	0.09	Y	Y	Y	Y		
MRF 63	63mA	8.5	0.66	250		0.001	0.001	0.10	Y	Y	Y	Y		
MRF 80	80mA	6.3	0.64	250		0.002	0.002	0.11	Y	Y	Y	Y		
MRF 100	100mA	4.0	0.49	250		0.003	0.003	0.11	Y	Y	Y	Y		
MRF 125	125mA	3.1	0.50	250		0.007	0.007	0.13	Y	Y	Y	Y		
MRF 160	160mA	2.3	0.46	250		0.016	0.016	0.21	Y	Y	Y	Y		
MRF 200	200mA	1.7	0.41	250		0.027	0.027	0.19	Y	Y	Y	Y		
MRF 250	250mA	0.42	0.17	250		0.023	0.023	0.23	Y	Y	Y	Y		
MRF 315	315mA	0.29	0.15	250		0.044	0.044	0.22	Y	Y	Y	Y		
MRF 400	400mA	0.21	0.14	250		0.073	0.072	0.28	Y	Y	Y	Y		
MRF 500	500mA	0.17	0.15	250		0.20	0.18	0.42	Y	Y	Y	Y		
MRF 630	630mA	0.10	0.08	250		0.15	0.14	0.16	Y	Y	Y	Y		
MRF 800	800mA	0.071	0.08	250		0.4	0.4	0.20	Y	Y	Y	Y		
MRF 1	1A	0.057	0.08	250		0.7	0.6	0.38	Y	Y	Y	Y		Y
MRF 1.25	1.25A	0.047	0.081	250		1.3	1.2	0.69	Y	Y	Y	Y		Y
MRF 1.6	1.6A	0.035	0.077	250		1.4	1.3	0.62	Y	Y	Y	Y		Y
MRF 2	2A	0.028	0.075	250		2.1	2.0	0.72	Y	Y	Y	Y		Y
MRF 2.5	2.5A	0.022	0.071	250		4	3	0.92	Y	Y	Y	Y		Y
MRF 3.15	3.15A	0.016	0.064	250		6	4	0.82	Y	Y	Y	Y		Y
MRF 4	4A	0.011	0.059	250		8	6	0.65	Y	Y	Y	Y		Y
MRF 5	5A	0.010	0.056	250		15	11.8	0.91	Y	Y	Y	Y		Y
MRF 6.3	6.3A	0.008	0.054	250		25	19.8	1.05	Y	Y			Y	

Consult manufacturer for other ratings

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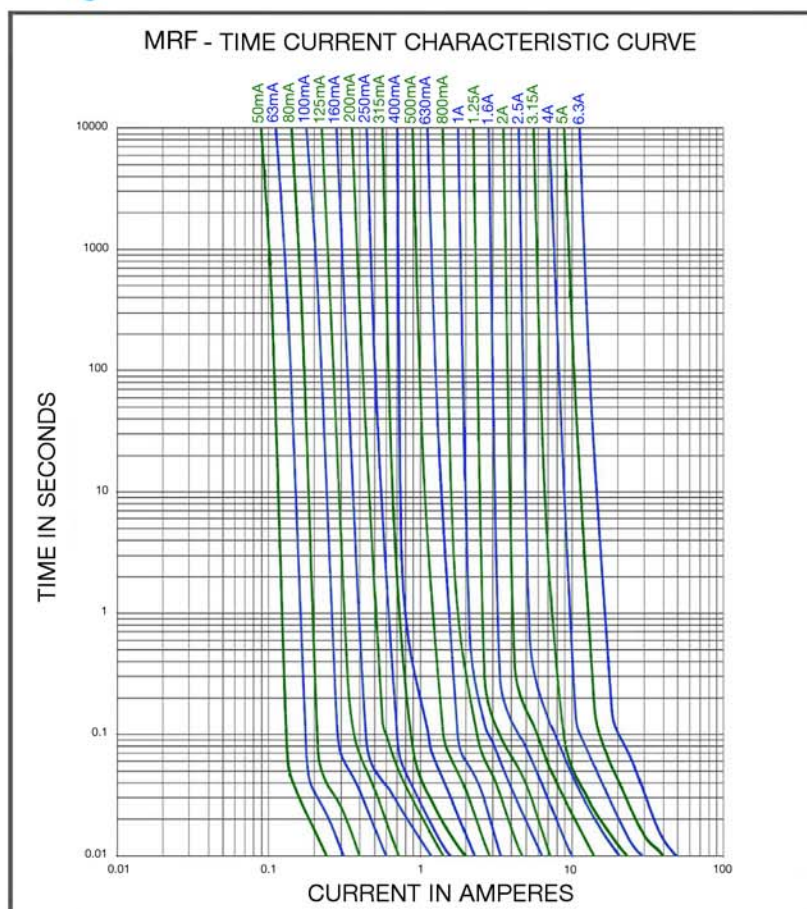
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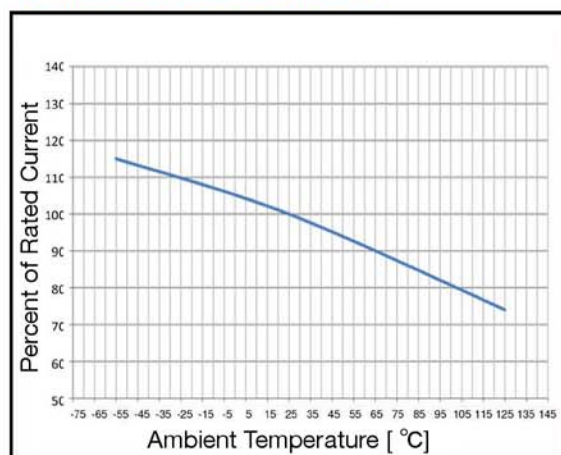
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Average Time Current Curve

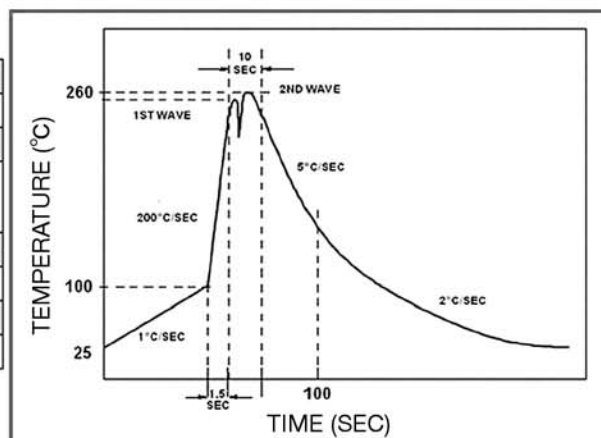


Temperature Derating Curve



Soldering Parameters

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



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