

Designer's™ Data Sheet
High Current Lead Mounted Rectifiers

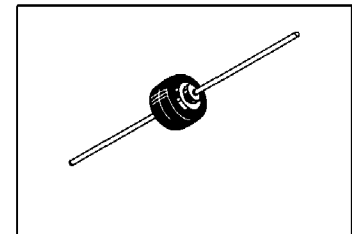
- Current Capacity Comparable to Chassis Mounted Rectifiers
- Very High Surge Capacity
- Insulated Case

Mechanical Characteristics:

- Case: Epoxy, Molded
- Weight: 2.5 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Lead is Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Polarity: Cathode Polarity Band
- Shipped 1000 units per plastic bag. Available Tape and Reeled, 800 units per reel by adding a "RL" suffix to the part number
- Marking: R750, R751, R752, R754, R758, R760

**MR750
 MR751
 MR752
 MR754
 MR756
 MR758
 MR760**

**HIGH CURRENT
 LEAD MOUNTED
 SILICON RECTIFIERS
 50-1000 VOLTS
 DIFFUSED JUNCTION**



MAXIMUM RATINGS

Characteristic	Symbol	MR750	MR751	MR752	MR754	MR756	MR758	MR760	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	Volts
Non-Repetitive Peak Reverse Voltage (Halfwave, single phase, 60 Hz peak)	V_{RSM}	60	120	240	480	720	960	1200	Volts
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	Volts
Average Rectified Forward Current (Single phase, resistive load, 60 Hz) See Figures 5 and 6	I_O	22 ($T_L = 60^\circ\text{C}$, 1/8" Lead Lengths) 6.0 ($T_A = 60^\circ\text{C}$, P.C. Board mounting)							Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions)	I_{FSM}	400 (for 1 cycle)							Amps
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-65 to +175							°C

ELECTRICAL CHARACTERISTICS

Characteristic and Conditions	Symbol	Max	Unit
Maximum Instantaneous Forward Voltage Drop ($I_F = 100$ Amps, $T_J = 25^\circ\text{C}$)	V_F	1.25	Volts
Maximum Forward Voltage Drop ($I_F = 6.0$ Amps, $T_A = 25^\circ\text{C}$, 3/8" leads)	V_F	0.90	Volts
Maximum Reverse Current (Rated dc Voltage)	I_R	25 1.0	μA mA

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