MR760

High Current Lead Mounted Rectifiers

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

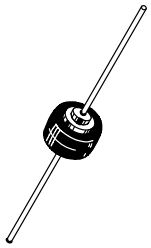
Mechanical Characteristics:

- 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

MAXIMUM RATINGS

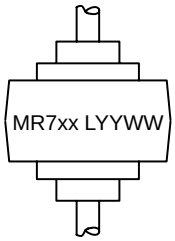
Please See the Table on the Following Page

HIGH CURRENT LEAD MOUNTED SILICON RECTIFIERS 50 – 1000 VOLTS DIFFUSED JUNCTION



AXIAL LEAD BUTTON CASE 194 STYLE 1

MARKING DIAGRAM



MR7xx	= Device Code
xx	= 50, 51, 52, 54, 56 or 60
L	= Location Code
YY	= Year
WW	= Work Week

ORDERING INFORMATION

Device	Package	Shipping
MR750	Axial Lead	1000 Units/Bag
MR750RL	Axial Lead	800/Tape & Reel
MR751	Axial Lead	1000 Units/Bag
MR751RL	Axial Lead	800/Tape & Reel
MR752	Axial Lead	1000 Units/Bag
MR752RL	Axial Lead	800/Tape & Reel
MR754	Axial Lead	1000 Units/Bag
MR754RL	Axial Lead	800/Tape & Reel
MR756	Axial Lead	1000 Units/Bag
MR756RL	Axial Lead	800/Tape & Reel
MR760	Axial Lead	1000 Units/Bag
MR760RL	Axial Lead	800/Tape & Reel

MAXIMUM RATINGS

Characteristic	Symbol	MR750	MR751	MR752	MR754	MR756	MR760	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	1000	Volts
Non–Repetitive Peak Reverse Voltage (Halfwave, single phase, 60 Hz peak)	V_{RSM}	60	120	240	480	720	1200	Volts
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	700	Volts
Average Rectified Forward Current (Single phase, resistive load, 60 Hz) See Figures 5 and 6	I_O	22 (T_L = 60°C, 1/8″ Lead Lengths) 6.0 (T_A = 60°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°C)		v_F	1.25	Volts
Maximum Forward Voltage Drop (I_F = 6.0 Amps, T_A = 25°C, 3/8″ leads)		V_F	0.90	Volts
Maximum Reverse Current (Rated dc Voltage)	T_J = 25°C T_J = 100°C	I_R	25 1.0	μA mA