



# SOLID STATE INC.

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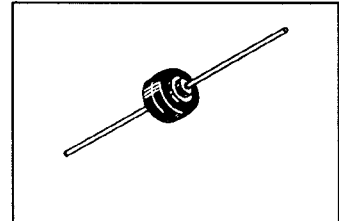
- Current Capacity Comparable to Chassis Mounted Rectifiers
- Very High Surge Capacity
- Insulated Case

### 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

**MR750**  
**MR751**  
**MR752**  
**MR754**  
**MR756**  
**MR758**  
**MR760**

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



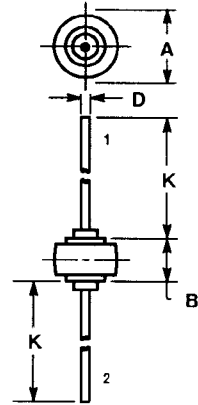
### MAXIMUM RATINGS

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	$I_O$	$\longleftrightarrow$ 22 ( $T_L = 60^\circ\text{C}$ , 1/8 Lead Lengths) 6.0 ( $T_A = 60^\circ\text{C}$ , P.C. Board mounting) $\longleftrightarrow$							Amps
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions)	$I_{FSM}$	$\longleftrightarrow$ 400 (for 1 cycle) $\longleftrightarrow$							Amps
Operating and Storage Junction Temperature Range	$T_J, T_{stg}$	$\longleftrightarrow$ -65 to +175 $\longleftrightarrow$							$^\circ\text{C}$

### 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	$\mu\text{A}$ mA

**MR750 MR751 MR752 MR754 MR756 MR758 MR760**  
**PACKAGE DIMENSIONS**



NOTES:  
 1. CATHODE SYMBOL ON PACKAGE.

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.43	8.69	0.332	0.342
B	5.94	6.25	0.234	0.246
D	1.27	1.35	0.050	0.053
E	25.15	25.65	0.990	1.010

STYLE 1:  
 PIN 1. CATHODE  
 2. ANODE

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