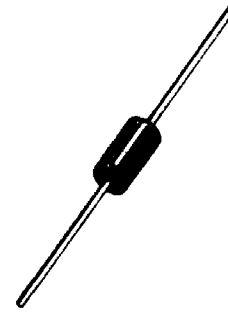


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MR500 MR501
MR502 MR504
MR506 MR508
MR510



**STANDARD RECOVERY
POWER RECTIFIERS**

**50-1000 VOLTS
3 AMPERE**

MAXIMUM RATINGS

Rating	Symbol	MR500	MR501	MR502	MR504	MR506	MR508	MR510	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								Volts
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	
DC Blocking Voltage	V_R								
Non-Repetitive Peak Reverse Voltage	V_{RSM}	75	150	250	450	650	850	1050	Volts
Average Rectified Forward Current (Single phase resistive load, $T_z = 95^\circ\text{C}$, PC Board Mounting) (1) (EIA Standard Conditions $L = 1.32''$, $T_L = 85^\circ\text{C}$)	I_O								Amp
Non-Repetitive Peak Surge Current (surge applied at rated load conditions)	I_{FSM}								Amp
Operating and Storage Junction Temperature Range (2)	T_J, T_{stg}								$^\circ\text{C}$

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Ambient (Recommended Printed Circuit Board Mounting, See Note 2).	$R_{\theta JA}$	28	$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min	Typ	Max	Unit
Instantaneous Forward Voltage (3) ($i_F = 9.4 \text{ Amp}$, $T_J = 175^\circ\text{C}$) ($i_F = 9.4 \text{ Amp}$, $T_J = 25^\circ\text{C}$)	V_F	-	0.9 1.04	1.0 1.1	Volts
Reverse Current (rated dc voltage) (3) $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_R	-	0.1 2.8	5.0 25	μA

- (1) Derate for reverse power dissipation.
- (2) Derate as shown in Figure 1.
- (3) Pulse Test: Pulse Width = 300 μs , Duty Cycle = 2.0%.



Quality Semi-Conductors