

MP3505 THRU MP3510

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 35 Amperes

FEATURES

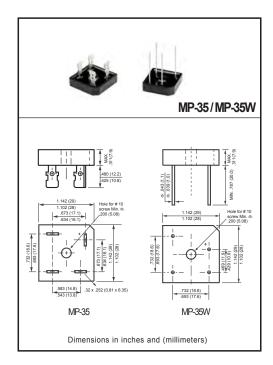
- * Superior thermal desing
- * 400 amperes surge rating
- * 1/4" universal faston terminal
- * Holel thru for # 10 screw

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL listed the recognized component directory,file #E94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

MAXIMUM RATINGS (@ IA=25 °C unless otherwise noted)									
RATINGS	SYMBOL	MP3505	MP351	MP352	MP354	MP356	MP358	MP3510	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 55°C	I _O	35						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400						Amps	
RMS isolation voltage from case to lead	Viso	2500						Volts	
Typical Thermal Resistance (Note 1)	R _θ JC	1.4							°C/W
Typical Incimal Resistance (Note 1)	$R_{\theta JA}$	19							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						٥C	

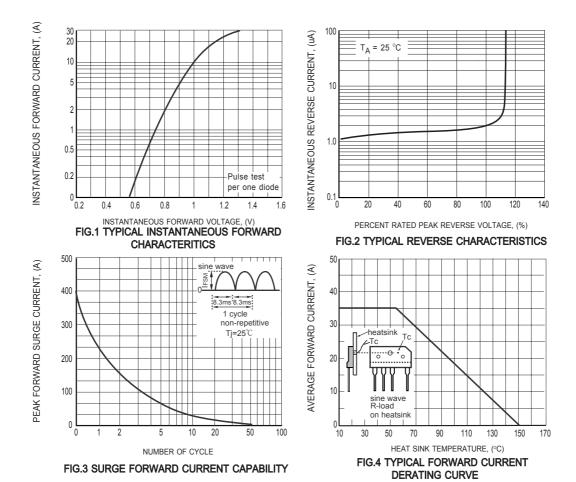
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	MP3505	MP351	MP352	MP354	MP356	MP358	MP3510	UNITS
Maximum Instantaneous Forward Voltage at 17.5A DC		V _F	1.1							Volts
	@T _A = 25°C	- I _R				5.0				
	@T _A = 100°C					500				uAmps

 Thermal Resistance : Heat-sink case mounted or if PCB mounted.
"Fully ROHS compliant", "100% Sn plating (Pb-free)".
Suffix "W" for wire type. NOTES:

2008-10 REV: A

RATING AND CHARACTERISTICS CURVES (MP3505 THRU MP3510)



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.

