

MP3505 THRU MP3510

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 35 Amperes

FEATURES

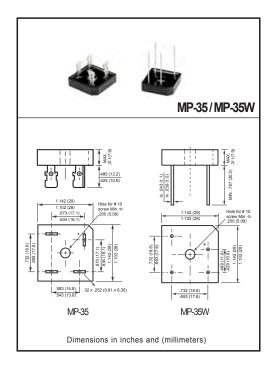
- * Superior thermal desing
- * 400 amperes surge rating
- * 1/4" universal faston terminal
- * Holel thru for # 10 screw

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 (@ 1A=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 Thermal resistance (Note 1)	$R_{\theta JA}$	19							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						٥C	

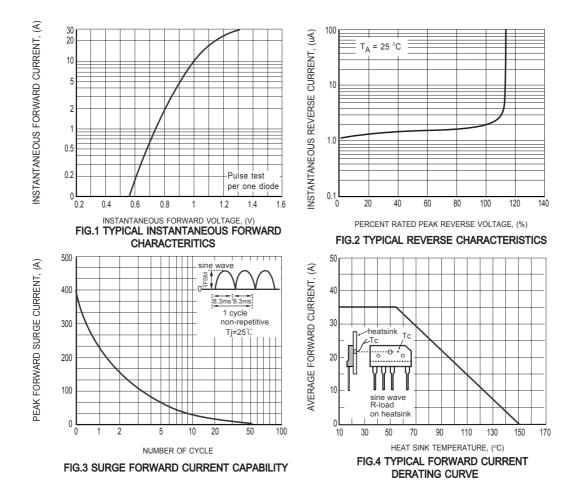
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

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)



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