

MP3505 THRU MP3510

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 35 Amperes

FEATURES

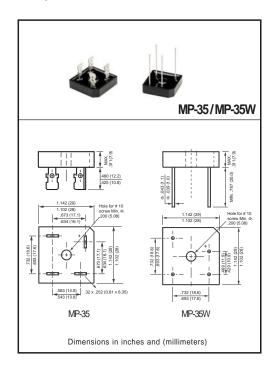
- * Superior thermal design
- * 400 amperes surge rating
- * 1/4" universal faston terminal
- * Hole thru for # 10 screw

MECHANICAL DATA

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=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	Io	35						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400						Amps	
Typical Current Squarad Time	l ² t	663.7					A ² /Sec		
RMS isolation voltage from case to lead	Viso	2500					Volts		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.4							°C/W
Typical Thomas Nosistanos (Note 1)	R_{\thetaJA}	19							
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150						٥C	

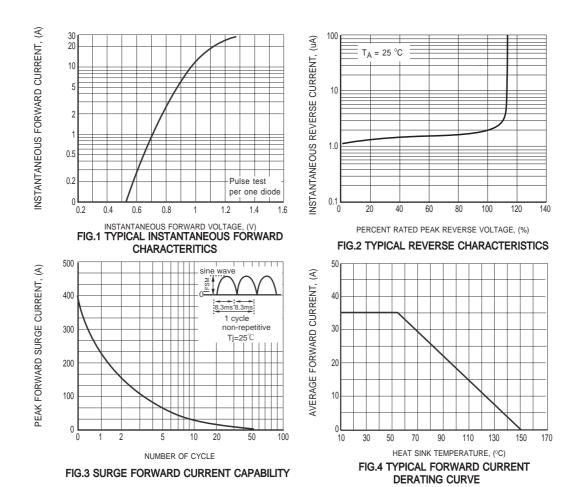
$\textbf{ELECTRICAL CHARACTERISTICS} (@T_A = 25 \ ^{\circ}\text{C unless otherwise noted})$

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

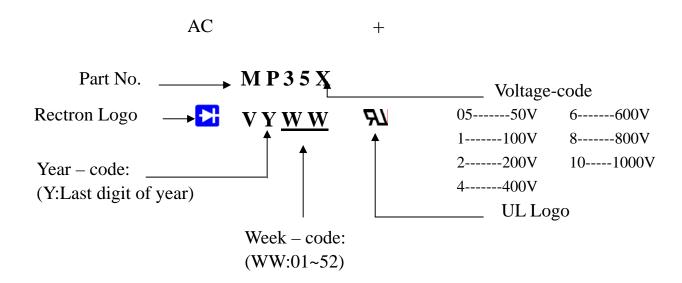
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Suffix "W" for wire type.

2011-02 REV:C

RATING AND CHARACTERISTICS CURVES (MP3505 THRU MP3510)



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MP-35(W)	-В	50	203*205*57	450*220*255	400	7.7 (8.26)



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