

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE RANGE 50 to 1000 Volts CURRENT 35 Amperes

FEATURES

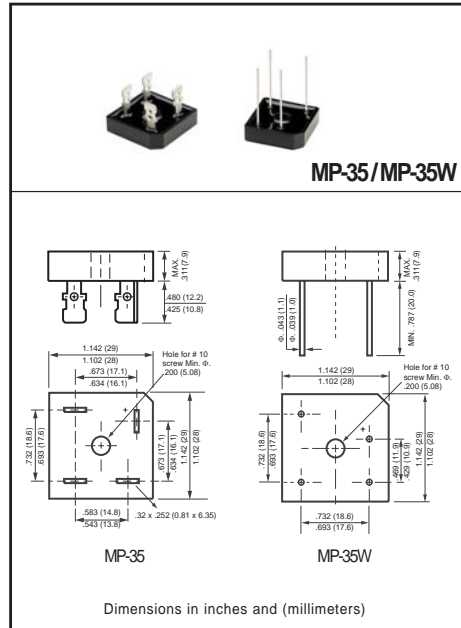
- * Superior thermal design
- * 400 amperes surge rating
- * 1/4" universal faston terminal
- * Hole thru for # 10 screw

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-0
- * 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	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
Typical Current Squared Time	i ² t	663.7							A ² /Sec
RMS isolation voltage from case to lead	V _{ISO}	2500							Volts
Typical Thermal Resistance (Note 1)	R _{θJC}	1.4							°C/W
	R _{θJA}	19							
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150							°C

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	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	@ T _A = 25°C	5.0							uAmps
		@ T _A = 100°C	500							

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)

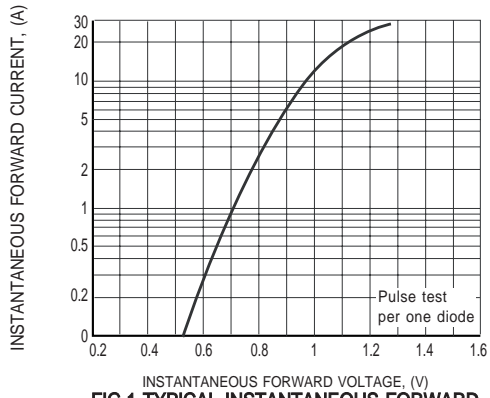


FIG.1 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

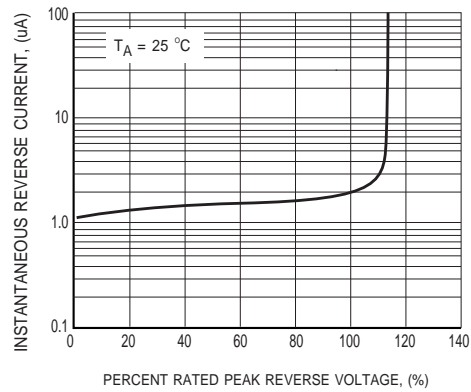


FIG.2 TYPICAL REVERSE CHARACTERISTICS

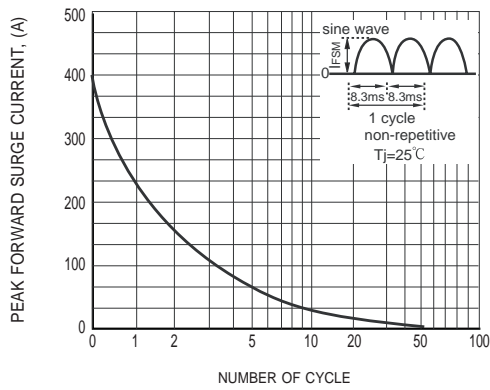


FIG.3 SURGE FORWARD CURRENT CAPABILITY

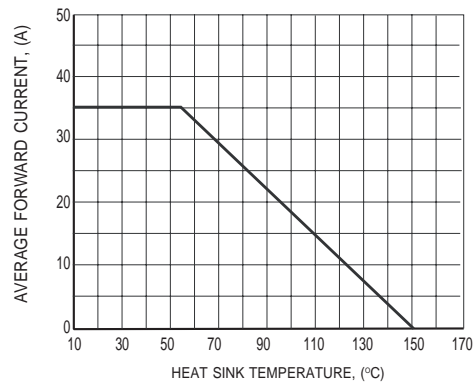
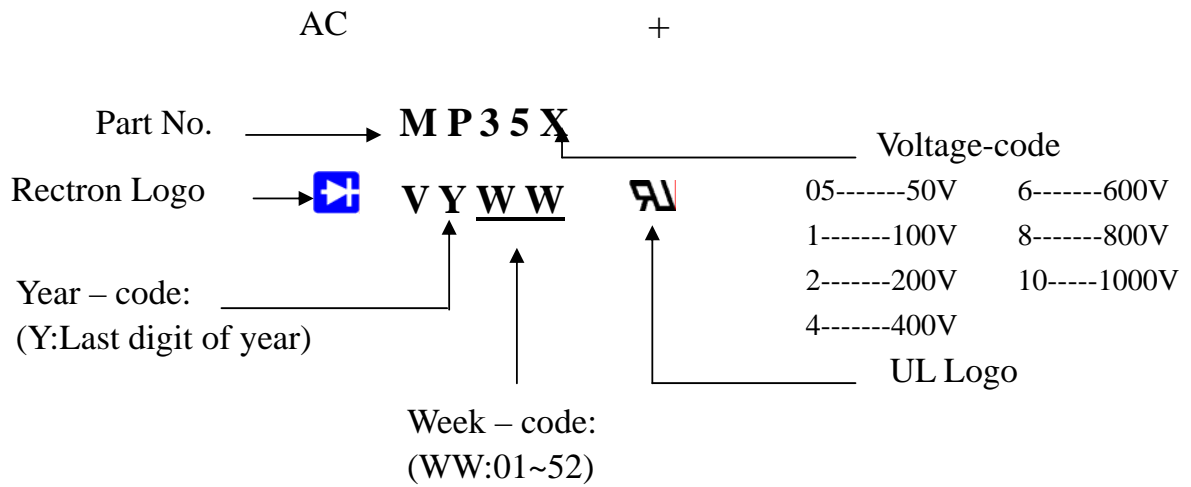


FIG.4 TYPICAL FORWARD CURRENT DERATING CURVE

Marking Description



 **RECTRON**

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)	-B	50	203*205*57	450*220*255	400	7.7 (8.26)



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