

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES

- * Superior thermal desing
- * 300 amperes surge rating
- * 1/4" universal faston terminal
- * Hole thru for # 8 screw

MECHANICAL DATA

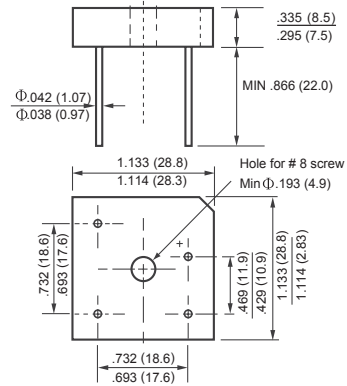
- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-0

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



MP-15W



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

RATINGS	SYMBOL	MP1505W	MP151W	MP152W	MP154W	MP156W	MP158W	MP1510W	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input 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 Output Current at Tc = 55°C	I _O	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300							Amps
Typical Current Squarad Time	I ² _t	373.3							A ² /Sec
RMS isolation voltage from case to lead	V _{ISO}	2500							Volts
Typical Thermal Resistance (from junction to case)	R _{θJC}	2							°C/W
Typical Thermal Resistance (from junction to ambient)	R _{θJA}	19							
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150							°C

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

CHARACTERISTICS	SYMBOL	MP1505W	MP151W	MP152W	MP154W	MP156W	MP158W	MP1510W	UNITS	
Maximum Forward Voltage Drop per element at 7.5A DC	V _F	1.1								Volts
Maximum Reverse Current at Rated	I _R	@TA = 25°C				10.0				uAmps
DC Blocking Voltage per element		@TA = 150 °C				5.0				mAmps

NOTE: 1. Suffix "W" for wire type
2. "ROHS compliant"

RATING AND CHARACTERISTIC CURVES (MP1505W THRU MP1510W)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

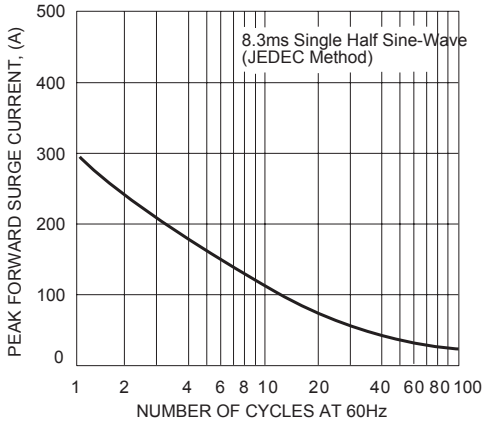


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

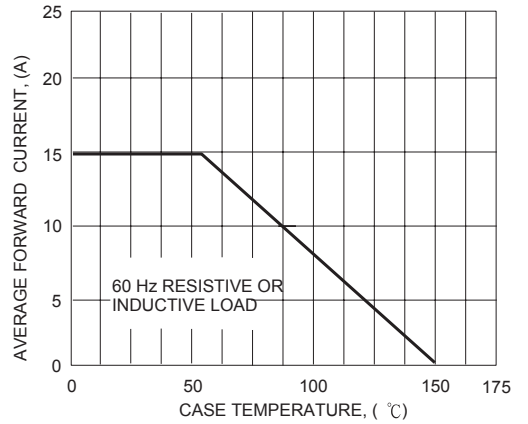


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

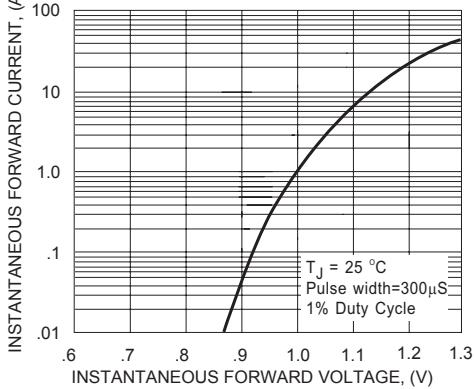
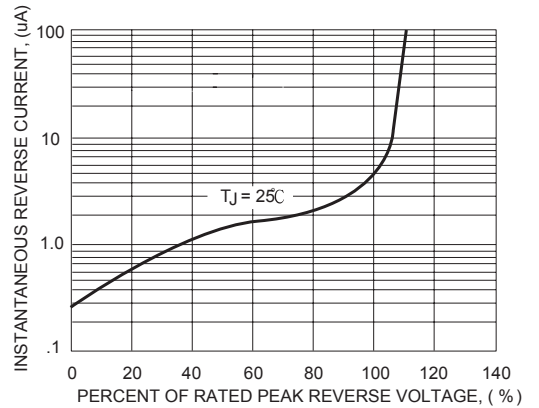


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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-15/-25/-35W	-B	50	203*205*47	440*223*253	500	8.6

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