



MP1505
THRU
MP1510

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

VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES

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

MECHANICAL DATA

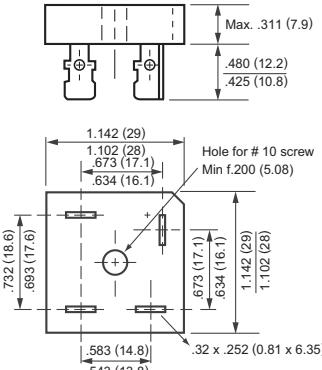
- * UL listed the recognized component directory, file #E94233
- * Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



MP-15



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	MP1505	MP151	MP152	MP154	MP156	MP158	MP1510	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 T _c = 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 Squared 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				°C/W
Operating and Storage Temperature Range	T _J , T _{StG}				-55 to +150				°C

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

CHARACTERISTICS	SYMBOL	MP1505	MP151	MP152	MP154	MP156	MP158	MP1510	UNITS
Maximum Forward Voltage Drop per element at 7.5A DC	V _F				1.05				Volts
Maximum Reverse Current at Rated	I _R	@TA = 25°C			0.5				uAmps
DC Blocking Voltage per element			@TA = 150 °C			500			uAmps

NOTE: 1. Suffix "W" for wire type

2. "RoHS compliant

2023-06
REV:E

RATING AND CHARACTERISTIC CURVES (MP1505 THRU MP1510)

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

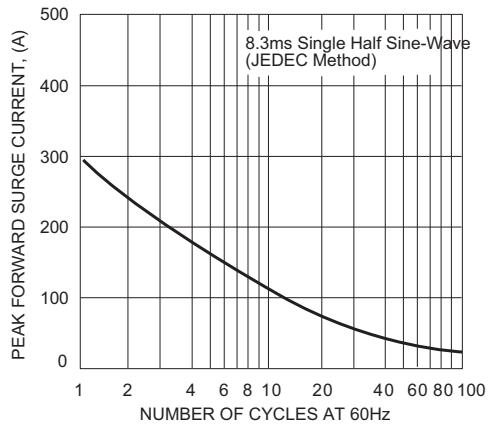


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

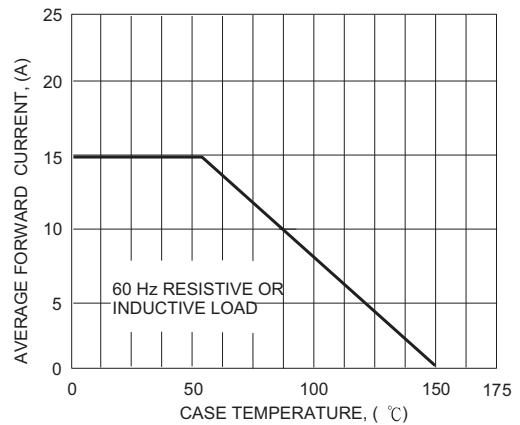


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

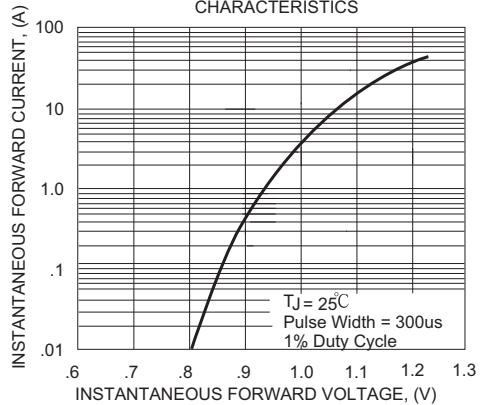
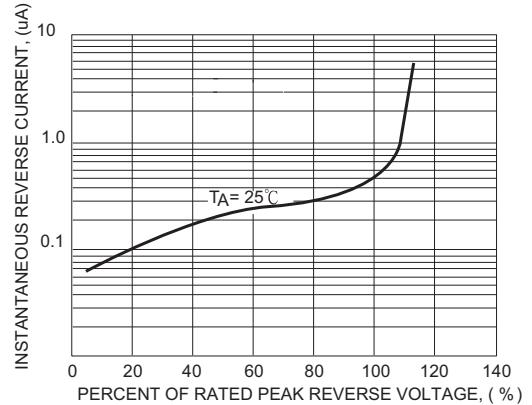
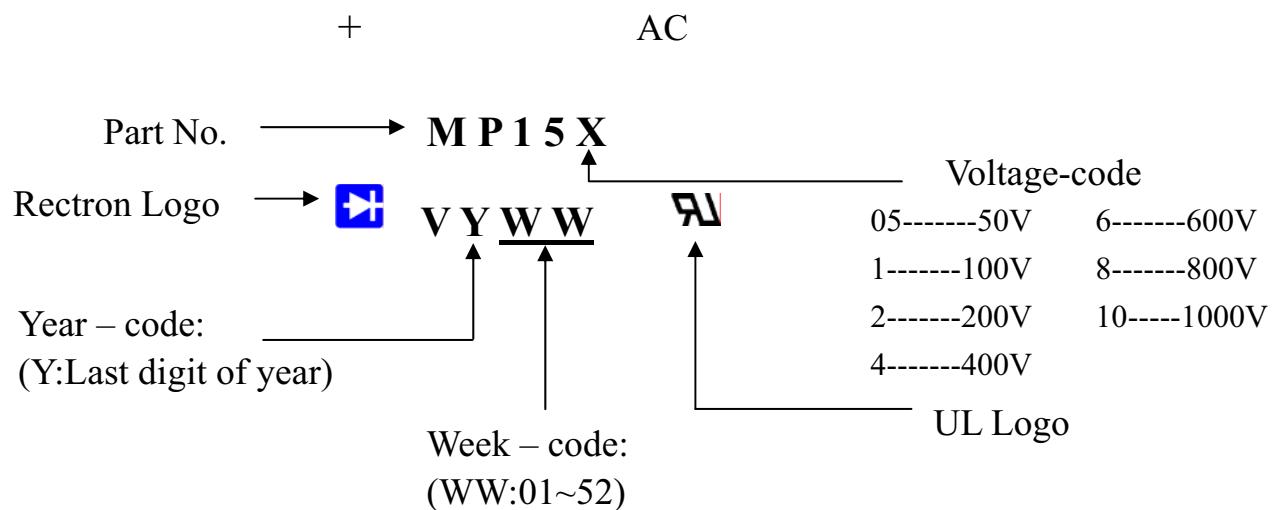


FIG. 4 - MAXIMUM REVERSE CHARACTERISTICS



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-15/-25/-35	-B	50	206*208*45.5	450*220*255	500	9.6

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