

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

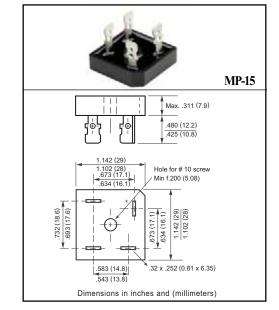
VOLTAGE RANGE 50 to 1000 Volts CURRENT 15 Amperes

FEATURES

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

MECHANICAL DATA

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



Ratings at 25 $^{\circ}\mathrm{C}$ ambient temperature unless otherwise specified. resistive or inductive load.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

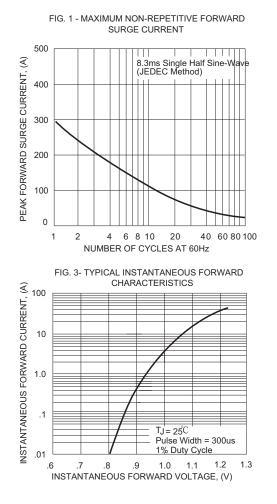
RATINGS	SYMBOL	MP1505	MP151	MP152	MP154	MP156	MP158	MP1510	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at Tc = 55°C	lo	15.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300							Amps
Typical Current Squarad Time	12t	373.3					A ² /Sec		
RMS isolation voltage from case to lead	Viso	2500						Volts	
Typical Thermal Resistance (from junction to case)	RθJC	2						°C/W	
Typical Thermal Resistance (from junction to ambient	RθJA	19					-0/W		
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					٥C		

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		Vf	1.05							Volts
Maximum Reverse Current at Rated	@TA = 25°C	- IR	0.5							uAmps
DC Blocking Voltage per element	@TA = 150 °C		500							uAmps
00.00									040.00	

NOTE: 1. Suffix "W" for wire type

2. "ROHS compliant"



RATING AND CHARACTERISTIC CURVES (MP1505 THRU MP1510)

0.1

0

20

40

60

80

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

25 AVERAGE FORWARD CURRENT, (A) 20 15 10 60 Hz RESISTIVE OR INDUCTIVE LOAD 5 0 0 50 100 175 150 CASE TEMPERATURE, (°C) FIG. 4 - MAXIMUM REVERSE CHARACTERISTICS INSTANTANEOUS REVERSE CURRENT, (uA) .0 1.0 TA= 25

FIG. 2 - TYPICAL FORWARD CURRENT

DERATING CURVE

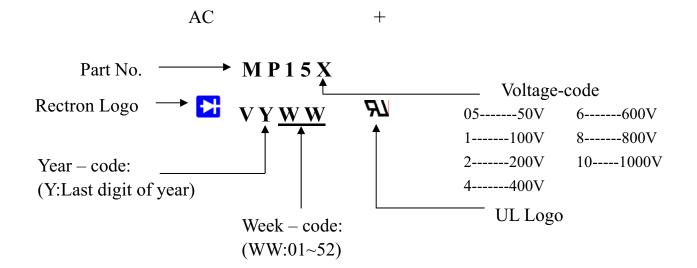
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120

140

100

Marking Description



CRECTRON

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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