



## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 25 Amperes

### FEATURES

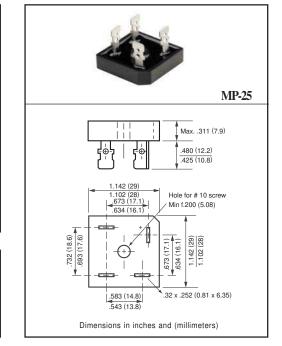
- \* Superior thermal desing
- \* 300 amperes surge rating
- \* 1/4" universal faston terminal
- \* Hole thru for # 10 screw

### **MECHANICAL DATA**

\* UL listed the recognized component directory, file #E94233

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

\* Epoxy: Device has UL flammability classification 94V-O



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

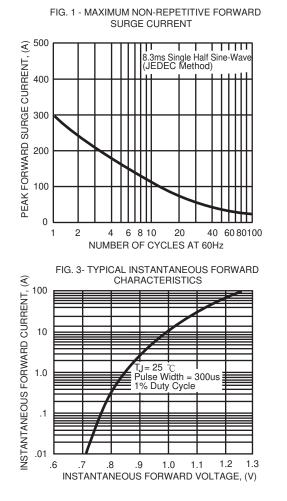
For capacitive load, derate current by 20%.

RATINGS	SYMBOL	MP2505	MP251	MP252	MP254	MP256	MP258	MP2510	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 Rectified Output Current at Tc = 55°C	lo	25.0							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	l <sup>2</sup> t	374					A <sup>2</sup> /Sec		
RMS isolation voltage from case to lead	Viso	2500						Volts	
Typical Thermal Resistance (from junction to case)	RθJC	1.9						°C/W	
Typical Thermal Resistance (from junction to ambient)	RθJA	19							
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150					٥C		

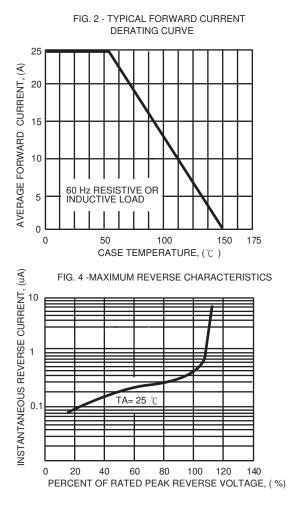
#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTIC	SYMBOL	MP2505	MP251	MP252	MP254	MP256	MP258	MP2510	UNITS	
Maximum Forward Voltage Drop per element	VF	1.05							Volts	
Maximum Reverse Current at Rated	@Ta = 25°C	- IB	0.5						uAmps	
DC Blocking Voltage per element	@TA = 150°C		500							uAmps
NOTE: 1. Suffix "W" for wire type									2023-06	

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



## RATING AND CHARACTERISTIC CURVES(MP2505 THRU MP2510)

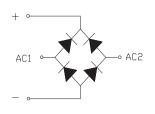


**C**RECTRON-

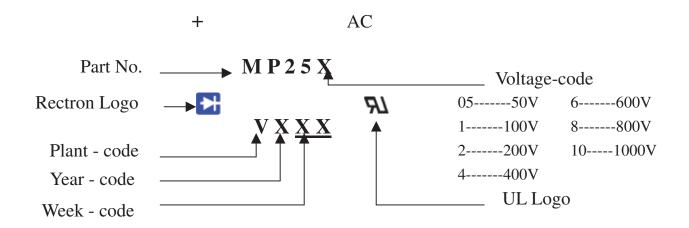


# **Attachment information about MP25X**

# 1. Internal Circuit



# 2. Marking on the body



## 3. Items marked on the inner box and carton

**3.1** On the box (for –B)

CUSTOMER TYPE LOT NO. QUANTITY Q.A. DATE

### 3.2 On the carton

CUSTOMER TYPE QUANTITY LOT NO. REMARK

# 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	-В	50	206*208*45.5	450*220*255	500	9.6



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