



MP15, 25, 35 SERIES

HIGH CURRENT 15 AMPS SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

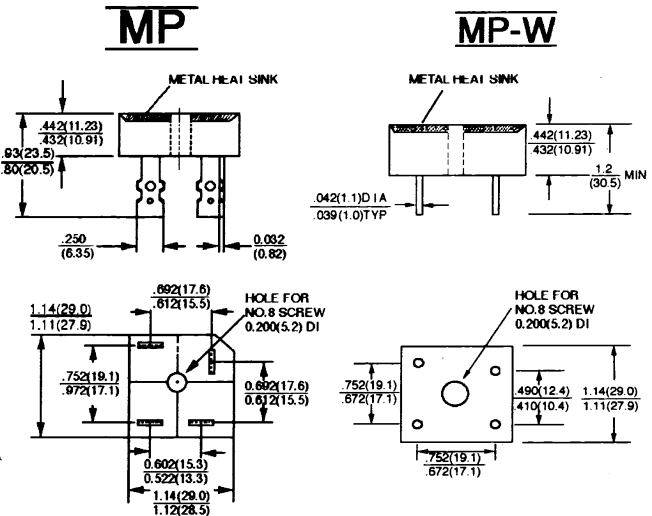


FEATURES

- * The plastic material used carries Underwriters Laboratory flammabilityTM recognition 94V - 0
- * Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- * Surge overload ratings from 300 Ampere to 400 Amperes
- * Terminals solderable per MIL - STD - 202. Method 208(For wire type)
- * Typical IR less than 0.2 μ A
- * High temperature soldering guaranteed(For wire type): 250°C/5 seconds/.375", (9.5mm) lead length
- * Isolated Voltage from case to terminal over 2500 volts

VOLTAGE RANGE

50 to 1000 Volts
CURRENT
15.0/25.0/35.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER NUMBER	SYMBOLS	-00G	-01G	-02G	-04G	-06G	-08G	-10G	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current at $T_c = 55^\circ\text{C}$ (See Fig. 1)	$I_{F(AV)}$	MP15 15.0	MP25 25.0	MP35 35.0					A
Peak Forward Surge Current Single sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	MP15 300	MP25 300	MP35 400					A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	V_F	MP15 7.5A 12.5A	MP25 12.5A 17.5A	MP35 17.5A	1.10				V
Maximum Reverse DC Current at Rated D.C Blocking Voltage per Element	I_R				5.0				μ A
Typical Thermal Resistance < 1 >	$R_{\theta JC}$				1.5				$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}				-50 to +150				$^\circ\text{C}$

- Notes: 1. Thermal Resistance from Junction to Case per leg.
2. Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 10 screw.
3. Suffix "W" - Wire Lead Structure.

RATINGS AND CHARACTERISTIC CURVES

MP1500G MP1510G
(MP2500G THRU MP2510G)
MP3500G MP3510G

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

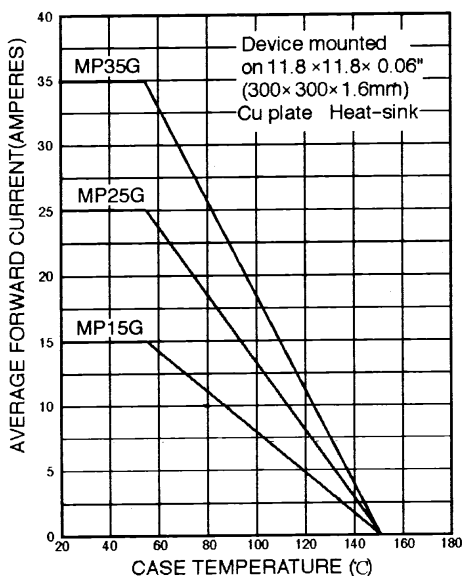


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT - PER ELEMENT

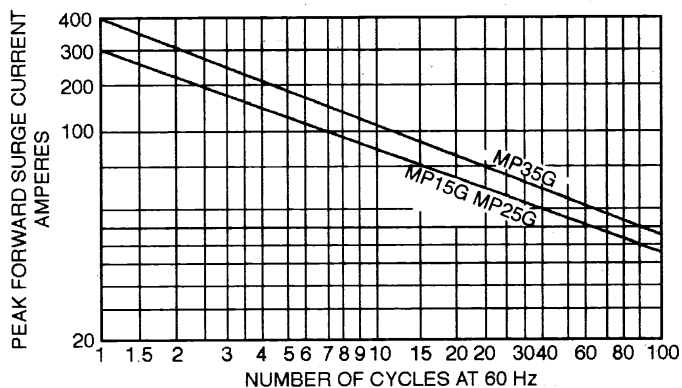


FIG.3 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

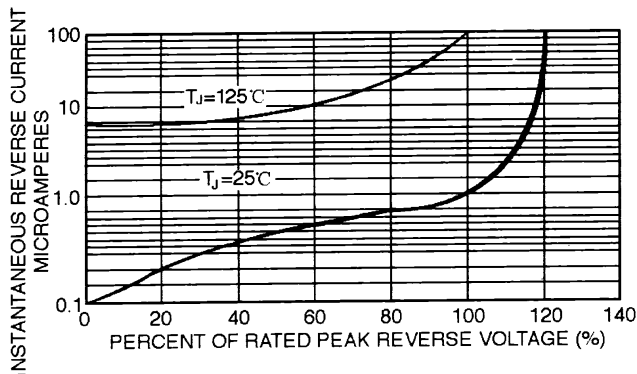


FIG.4 - TYPICAL FORWARD CHARACTERISTICS - PER ELEMENT

