



MP15, 25, 35 SERIES

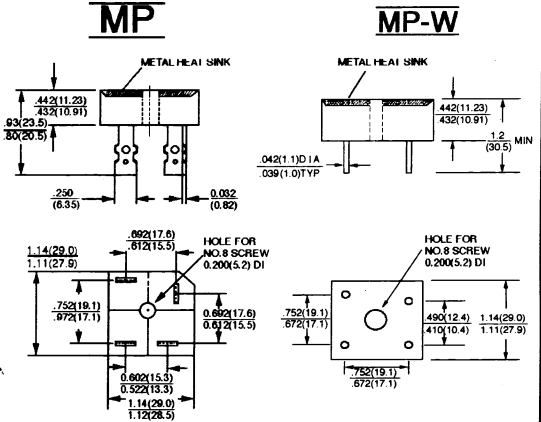
HIGH CURRENT 15 AMPS SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

- * The plastic material used carries Underwriters Laboratory flammability" 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%

TYPE 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)	$I_{F(AV)}$					15.0			A	
						25.0				
						35.0				
Peak Forward Surge Current Single sine-wave superimposed on rated load (JEDEC method)	I_{FSM}					300			A	
						300				
						400				
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	V_F	MP15 7.5A MP25 12.5A 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			$^\circ\text{C}/\text{W}$	
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 (MP2500G THRU MP2510G)
MP3500G MP1510G MP3510G

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

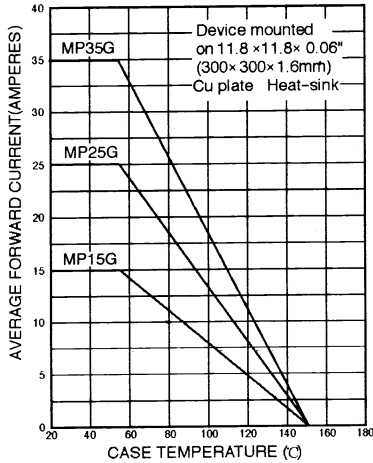


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT - PER ELEMENT

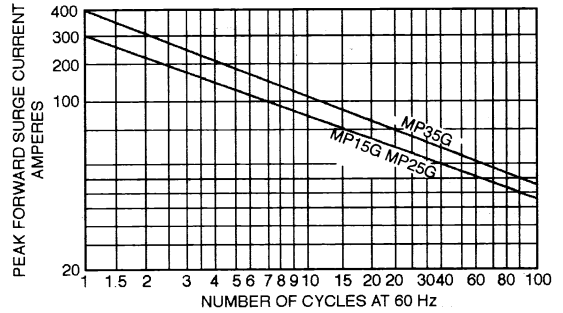


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

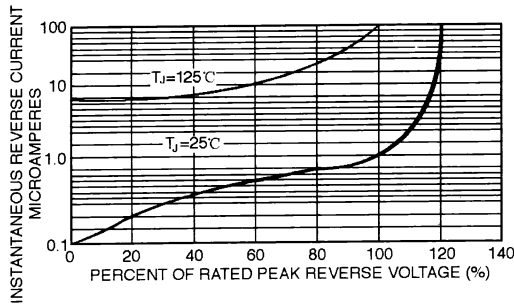


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS - PER ELEMENT

