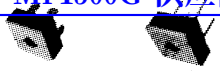
JGD

MP15,25,35 SERIES

HIGH CURRENT 15 AMPS SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS



VOLTAGE RANGE

50 to 1000 Volts

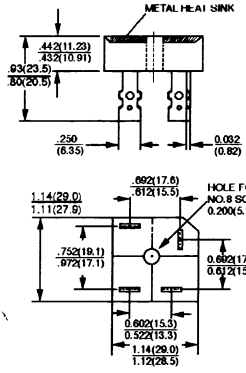
CURRENT

15.0/25.0/35.0 Amperes

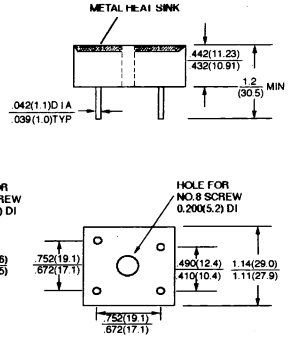
FEATURES

* 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
* Therminals solderable per MIL – STD – 202. Method 208(For wire type)
* Typical IR less than 0.2 μA
* High temperature soldering guaranteed(For wire type):250℃/5 seconds/.375",(9.5mm) lead length
* Isolated Voltage from case to lerminal over 2500 volts

MP



MP-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

~~RATES~~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℃(See Fig.1)	MP15 MP25 MP35	$I_{F(AV)}$	15.0 25.0 35.0							A
Peak Forward Surge Current Single sine-wave superimposed on rated load(JEDEC method)	MP15 MP25 MP35	I_{FSM}	300 300 400							A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	MP15 7.5A MP25 12.5A MP35 17.5A	V_F	1.10							V
Maximum Reverse DC Current at Rated D.C Blocking Voltage per Element		I_R	5.0							μA
Typical Thermal Resistance <1>		$R_{\theta JC}$	1.5							℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	– 50 to + 150							℃

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.

JGD

RATINGS AND CHARACTERISTIC CURVES

MP1500G MP1510G
(MP2500G THRU MP2510G)
MP3500G MP3510G

FIG.1 – TYPICAL FORWARD CURRENT DERATING CURVE

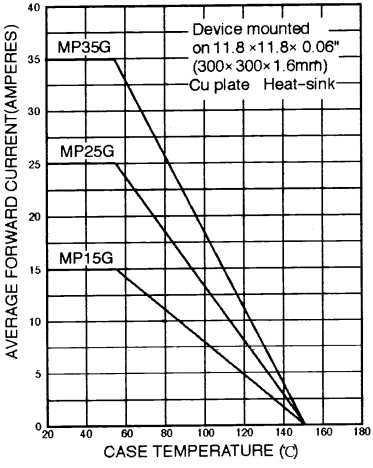


FIG.2 – MAXIMUM NON – REPETITIVE SURGE CURRENT – PER ELEMENT

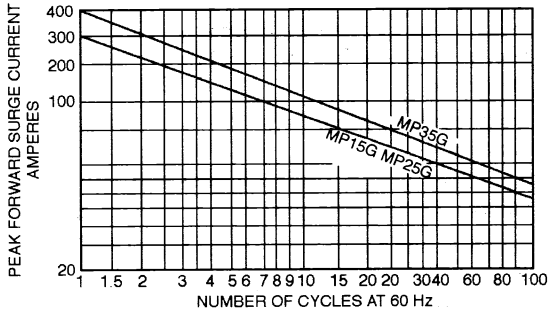


FIG.3 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

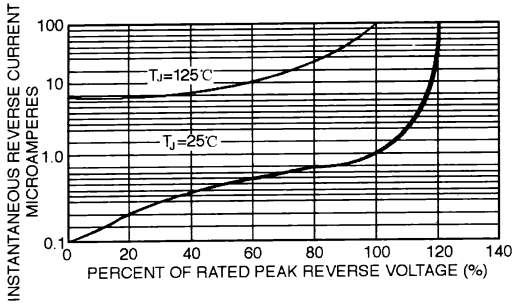


FIG.4 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT