

MP15005/W - MP1510/W

15A BRIDGE RECTIFIER

Features

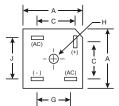
NOT RECOMMENDED FOR NEW DESIGNS - USE GBPC15XXXX SERIES

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 300A Peak
- Case to Terminal Isolation Voltage 1500V
- UL Listed: Recognized Component Index, File Number E95060

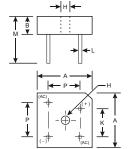
Mechanical Data

- Case: Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- MP Weight: 23 grams (approx.)
- MP-W Weight: 17 grams (approx.)
- Mounting Position: Any
- Marking: Type Number





MP-W



@ $T_A = 25$ °C unless otherwise specified

MP / MP-W								
Dim	Min	Max						
Α	28.40	28.70						
В	9.70	10.00						
С	15.70	16.70						
E	22.86	25.40						
G	13.50	14.50						
Н	Hole for #10 screw							
	5.08Ø Nominal							
J	17.50	18.50						
K	10.90	11.90						
L	0.97∅	1.07∅						
М	30.50	_						
Р	17.60	18.60						
All Dimensions in mm								

W Suffix Designates Wire Leads No Suffix Designates Faston Terminals

Maximum Ratings and Electrical Characteristics

Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

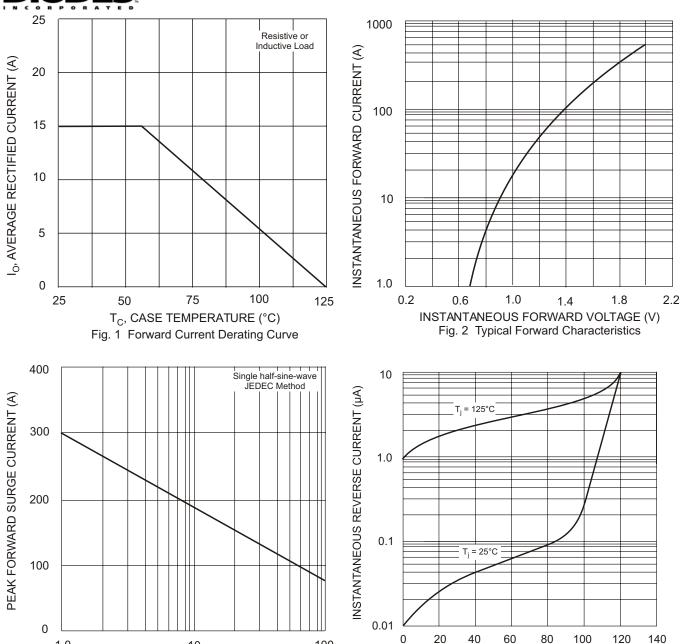
Characteristic	Symbol	MP15 005/W	MP15 01/W	MP15 02/W	MP15 04/W	MP15 06/W	MP15 08/W	MP15 10/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T _C = 55°C	l _O	15							Α
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)		300							А
Forward Voltage (per element) @ I _F = 7.5/	V _F	V _F 1.1			٧				
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		10 0.5						μA mA	
I ² t Rating for Fusing (Note 1)		373							A ² s
Typical Junction Capacitance (Note 2) C _j				200				pF
Typical Thermal Resistance Junction to Case (Note 3) R _θ JC				6.3				K/W
Operating and Storage Temperature Range		-65 to +125						°C	

Notes:

- 1. Non-repetitive, for t > 1.0ms and t < 8.3ms.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case per element mounted on heatsink.



1.0



100

PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

Fig. 4 Typical Reverse Characteristics

10

NUMBER OF CYCLES AT 60 Hz

Fig. 3 Maximum Non-Repetitive Surge Current