

MP25005/W - MP2510/W

25A BRIDGE RECTIFIER

Features

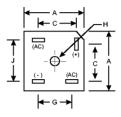
- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 300A Peak
- Case to Terminal Isolation Voltage 1500V
- UL Listed: Recognized Component Index, File Number E95060

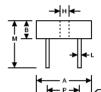
Mechanical Data

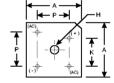
- Case: Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- MP Weight: 23 grams (approx.)
- MP-W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



MP







MP / MP-W								
Dim	Min	Max						
Α	28.40	28.70						
В	9.70	10.00						
С	15.70	16.70						
Е	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	0.97Ø	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

@ T_A = 25°C unless otherwise specified

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

Characteristic		Symbol	MP25 005/W	MP25 01/W	MP25 02/W	MP25 04/W	MP25 06/W	MP25 08/W	MP25 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	٧
Average Rectified Output Current	@ T _C = 55°C	I _O	25					Α		
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	300						Α	
Forward Voltage (per element)	@ I _F = 12.5A	V _F	1.1					٧		
Peak Reverse Current at Rated DC Blocking Voltage	@ T _C = 25°C @ T _C = 125°C	I _{RM}				10 0.5				μA mA
I ² t Rating for Fusing	ating for Fusing (Note 1)		373							A ² s
Typical Junction Capacitance	(Note 2)	Cj				300				pF
Typical Thermal Resistance Junction to Case (Note 3)		R _{θJC}	3.8						K/W	
Operating and Storage Temperature Range		T _{j,} T _{STG}	-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.

