

MP25005/W - MP2510/W

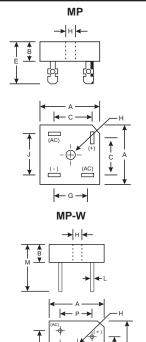
25A BRIDGE RECTIFIER

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-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					
к	10.90	11.90					
L	0.97Ø	1.07Ø					
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	V
RMS Reverse Voltage		V _{R(RMS)}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ To	c = 55°C	lo	25							А
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	300						A	
Forward Voltage (per element) @ I _F	= 12.5A	VF	1.1					V		
	= 25°C = 125°C	I _{RM}				10 0.5				μA mA
I ² t Rating for Fusing	(Note 1)	l ² t				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		Tj, TSTG	-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.

