

F1 E502650

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Plastic Case With Metal Bottom

50 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Typical Themal Resistance: 2.0°C/W Junction to Case

Mechanical Data

- Mounting Torque: 2.0 inch-lbs Max.
- Mounting Hole For #8 Screw

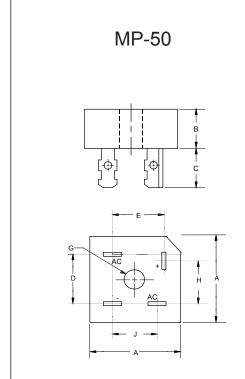
Device Marking	Maximum Recurrent Peak Reverse	Maximum RMS Voltage	Maximum DC Blocking Voltage
MP5005	50V	35V	50V
MP501	100V	70V	100V
MP502	200V	140V	200V
MP504	400V	280V	400V
MP506	600V	420V	600V
MP508	800V	560V	800V
MP5010	1000V	700V	1000V
	Marking MP5005 MP501 MP502 MP504 MP506 MP508	Device Marking Recurrent Peak Reverse Voltage MP5005 50V MP501 100V MP502 200V MP504 400V MP506 600V MP508 800V	Device Marking Recurrent Peak Reverse Voltage Maximum RMS Voltage MP5005 50V 35V MP501 100V 70V MP502 200V 140V MP504 400V 280V MP506 600V 420V MP508 800V 560V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	50.0A	T _A = 55°C	
Peak Forward Surge Current	I _{FSM}	500A	8.3ms, Half Sine	
Maximum Forward Voltage Drop Per Element	V _F	1.2V	I _{FM} = 25A ; T _J = 25°C (Note 2)	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10μA 1.0mA	T _J = 25°C T _J = 100°C	

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex Notes 7a.

2. Pulse Test: Pulse Width 300usec, Duty Cycle 1%



	DIMENSIONS					
DIM IN		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	1.118	1130	28.40	28.70		
В	0.432	0.442	10.97	11.23		
С	0.468	0.558	11.89	14.17		
D	0.689	0.728	17.50	18.50		
Е	0.618	0.657	15.70	16.70		
G	0.193		4.90		Ф	
Н	0.618	0.657	15.70	16.70		
J	0.531	0.571	13.50	14.50		



Curve Characteristics

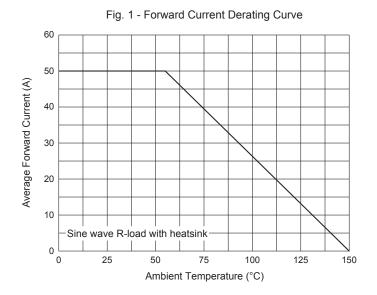
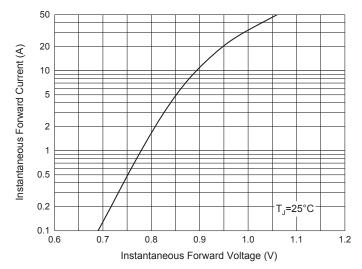


Fig. 3 - Typical Instantaneous Forward Characteristics



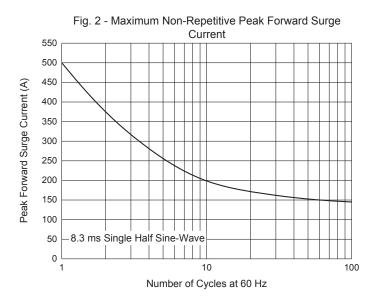
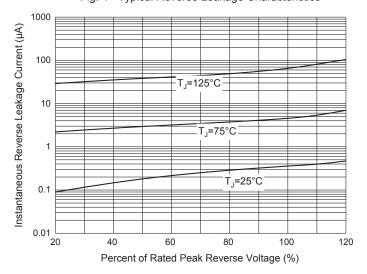


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk: 50Pcs/Box, 400Pcs/Ctn	

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