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MT5004A THRU MT5016A

Features

- Glass Passivated Die Construction
- General purpose 3 phase bridge rectifier applications
- High Surge Current Capability
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -40 °C to +150 °C
 Storage Temperature: -40 °C to +150 °C
- Maximum Thermal Resistance: 0.88°C/W Junction to case

MCC Part Number	Peak Repetitive Reverse Voltage
MT5004A	400V
MT5006A	600V
MT5008A	800V
MT5010A	1000V
MT5012A	1200V
MT5014A	1400V
MT5016A	1600V

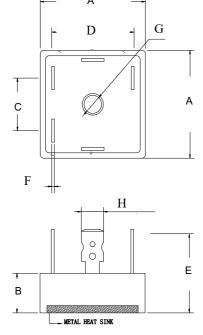
Electrical Characteristics @ 25°C Unless Otherwise Specified

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Average Forward Current	I _{F(AV)}	50A	T _C = 55°C		
Forward Surge Current(Nonrepetitive)	I _{FSM}	400A	60Hzsine wave,1cycle,		
Peak Forward Voltage	V_{FM}	1.2V	I _{FM} =12A _{PK} ,Pulse measurement,Rating of per diode		
Peak Reverse Current	I _{RRM}	10μΑ	Pulse measurement Rating of per diode		
Current Squared Time	l²t	660A ² S	1ms <t<8.3ms diode<="" of="" per="" rating="" td=""></t<8.3ms>		
Dielectric Strength	Vdis	2.5KV	AC 1min,Terminals to case		

Notes:1.High Temperature Solder Exemption Applied,see EU Directive Annex Notes 7.

50 Amp Three Phase Bridge Rectifier 400 to 1600 Volts

MT-35A



DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	1.110	1.134	28.20	28.80		
В	.354	.394	9.0	10.0		
С	.610	.650	15.5	16.5		
D	.948	.988	24.10	25.10		
E	.944		25	.00		
F	.029	.033	0.75	0.85		
G	.193		4.9			
Н	.244	.251	6.20	6.40		



■Characteristics(Typical)

FIG1:lo-Tc Curve 60 50 40 30 20 10 0 100 150 Tc(°C)

FIG2:Surge Forward Current Capadility IFSM(A) sine wave 500 Ta=25℃ 250 0 5 10 20 50 100 **Number of Cycles**

FIG3:Instantaneous Forward Voltage

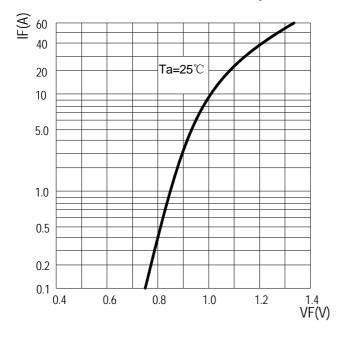
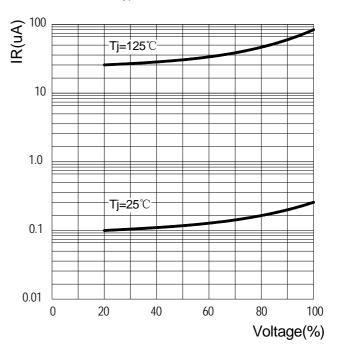


FIG4:Typical Reverse Characteristics





Ordering Information:

Device	Packing
Part Number-BP	Bulk: 50PCS/BOX:500PCS/CTN

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