

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: -55°C to +150°C
- Storage Temperature: -55°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

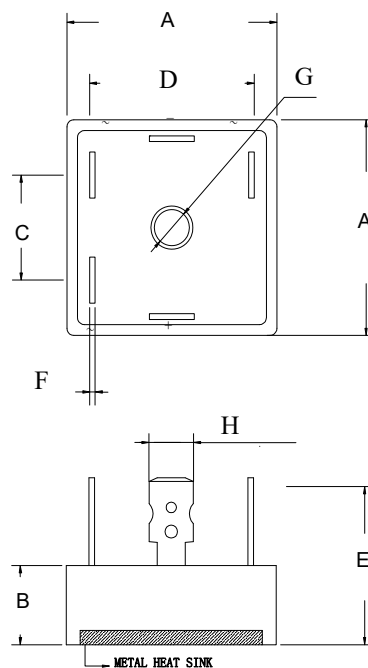
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50A	$T_C = 55^\circ\text{C}$
Forward Surge Current (Nonrepetitive)	I_{FSM}	500A	60Hz sine wave, 1 cycle,
Peak Forward Voltage	V_{FM}	1.2V	$I_{FM}=17A_{PK}$, Pulse measurement, Rating of per diode
Peak Reverse Current	I_{RRM}	10 μ A	Pulse measurement Rating of per diode
Current Squared Time	I^2t	1042A ² S	1ms < t < 8.3ms Rating of per diode
Dielectric Strength	V_{dis}	2KV	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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	1.110	1.134	28.20	28.80	
B	.354	.394	9.0	10.0	
C	.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		
H	.244	.251	6.20	6.40	

■ Characteristics(Typical)

FIG1:Io-Tc Curve

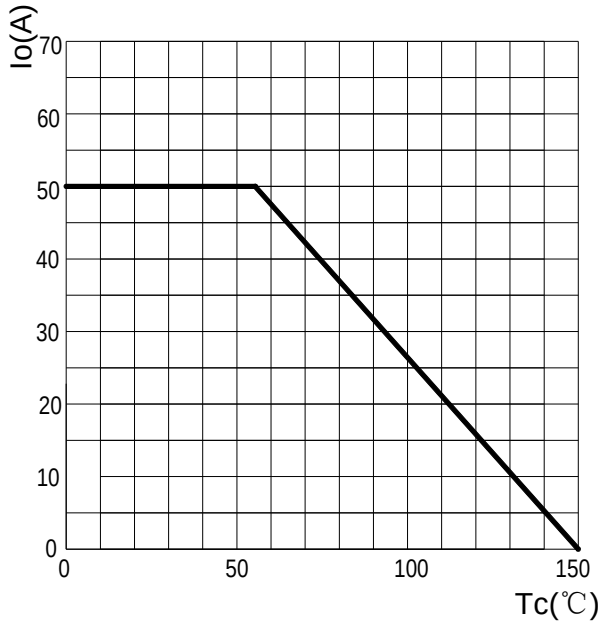


FIG2:Surge Forward Current Capability

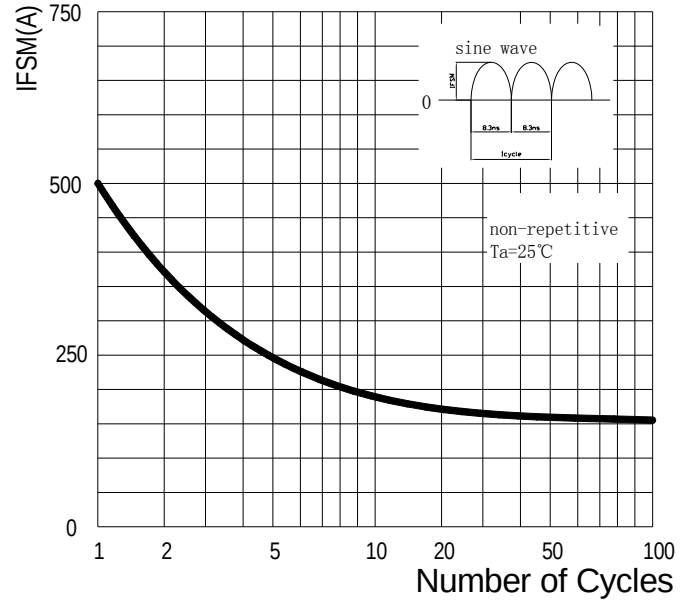


FIG3:Instantaneous Forward Voltage

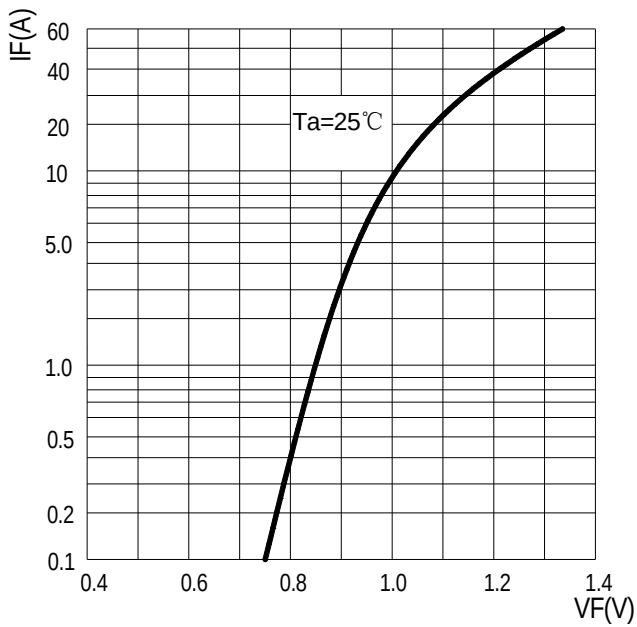
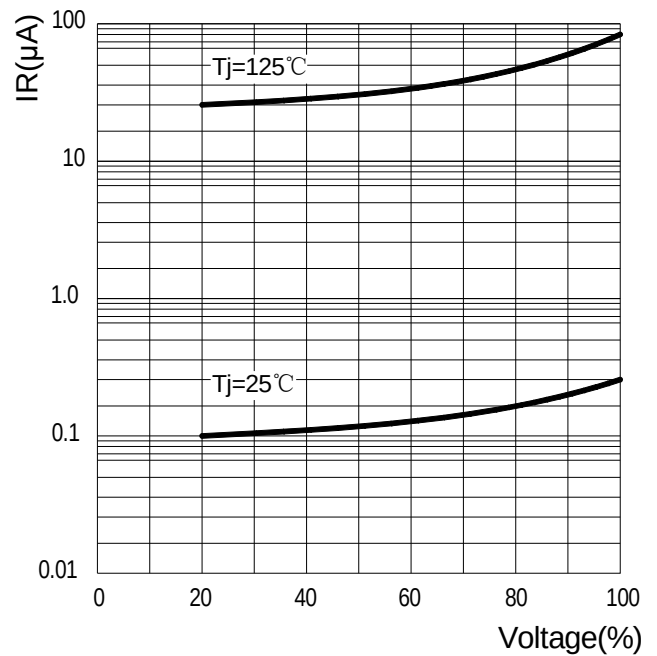


FIG4:Typical Reverse Characteristics



Ordering Information :

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

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