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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



Micro Commercial Components  
 20736 Marilla Street Chatsworth  
 CA 91311  
 Phone: (818) 701-4933  
 Fax: (818) 701-4939

# MT5004A THRU MT5016A

## 50 Amp Three Phase Bridge Rectifier 400 to 1600 Volts

### 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

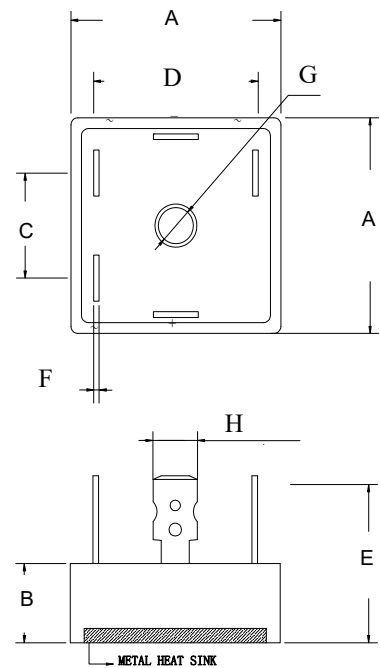
MCC Part Number	Peak Repetitive Reverse Voltage
MT5004A	400V
MT5006A	600V
MT5008A	800V
MT5010A	1000V
MT5012A	1200V
MT5014A	1400V
MT5016A	1600V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50A	$T_C = 55^\circ C$
Forward Surge Current (Nonrepetitive)	$I_{FSM}$	400A	60Hz sine wave, 1 cycle,
Peak Forward Voltage	$V_{FM}$	1.2V	$I_{FM} = 12A_{PK}$ , Pulse measurement, Rating of per diode
Peak Reverse Current	$I_{RRM}$	10 $\mu$ A	Pulse measurement Rating of per diode
Current Squared Time	$I^2t$	660A <sup>2</sup> S	1ms < t < 8.3ms Rating of per diode
Dielectric Strength	$V_{dis}$	2.5KV	AC 1min, Terminals to case

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

### 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

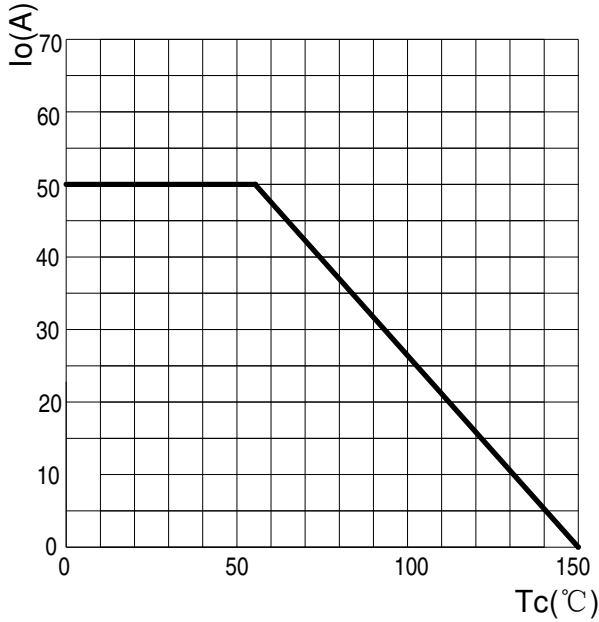


FIG2:Surge Forward Current Capadility

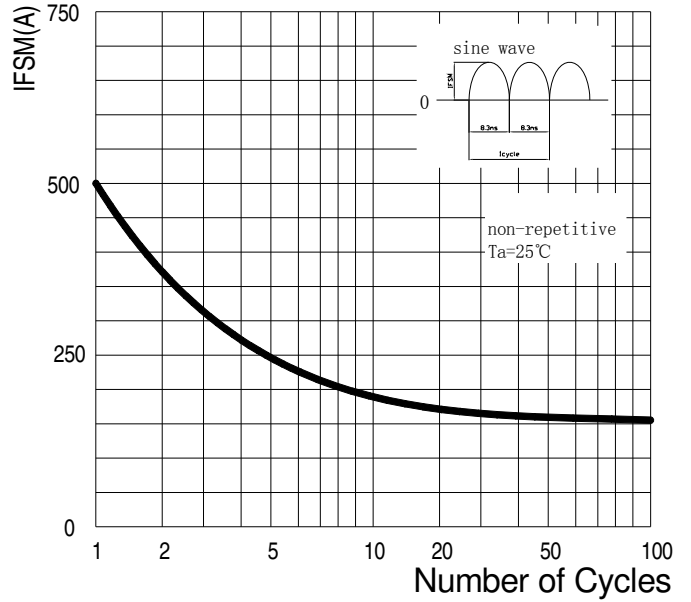


FIG3:Instantaneous Forward Voltage

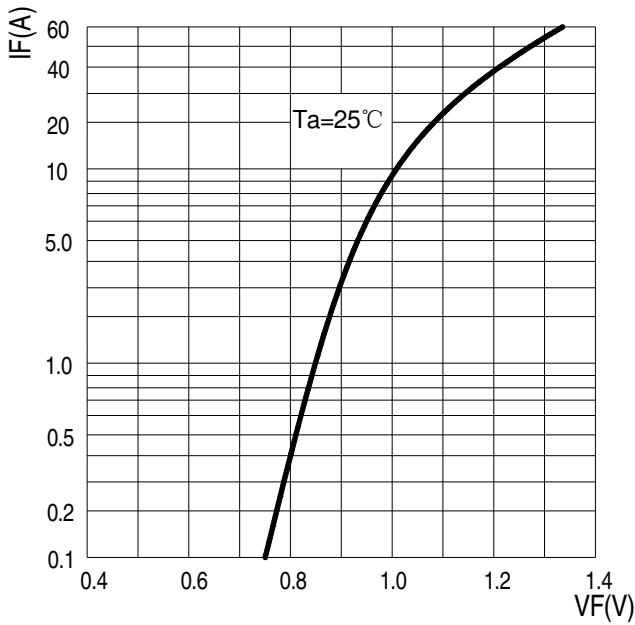
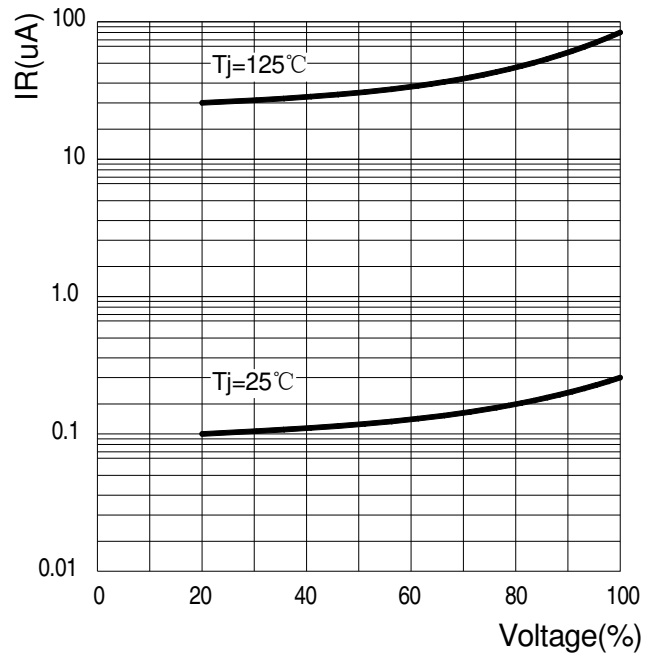


FIG4:Typical Reverse Characteristics





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### Ordering Information :

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

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