



Micro Commercial Components



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# MT3504A THRU MT3516A

## 35 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: 1.3°C/W Junction to case

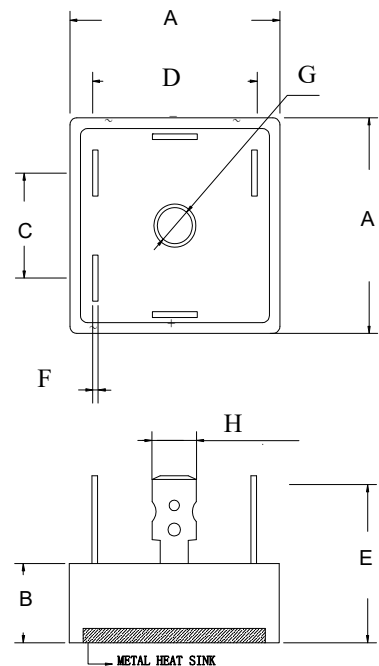
MCC Part Number	Peak Repetitive Reverse Voltage
MT3504A	400V
MT3506A	600V
MT3508A	800V
MT3510A	1000V
MT3512A	1200V
MT3514A	1400V
MT3516A	1600V

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

Average Forward Current	$I_{F(AV)}$	35.0A	$T_C = 55^\circ C$
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	$V_{dis}$	2KV 2.5KV	AC 1min, Terminals to case 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

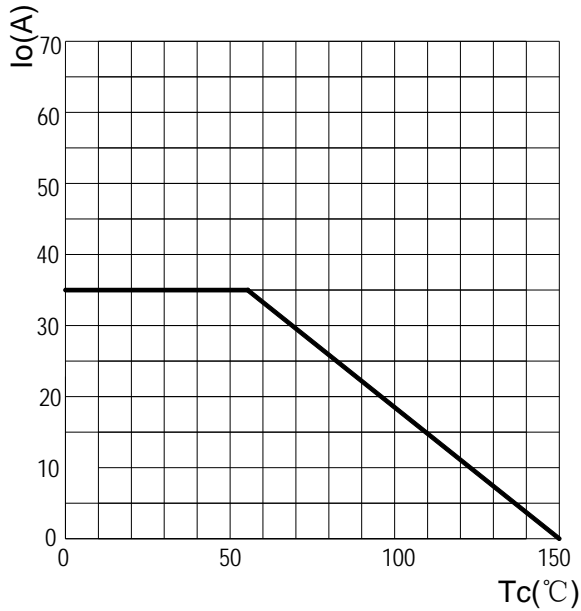


FIG2:Surge Forward Current Capadility

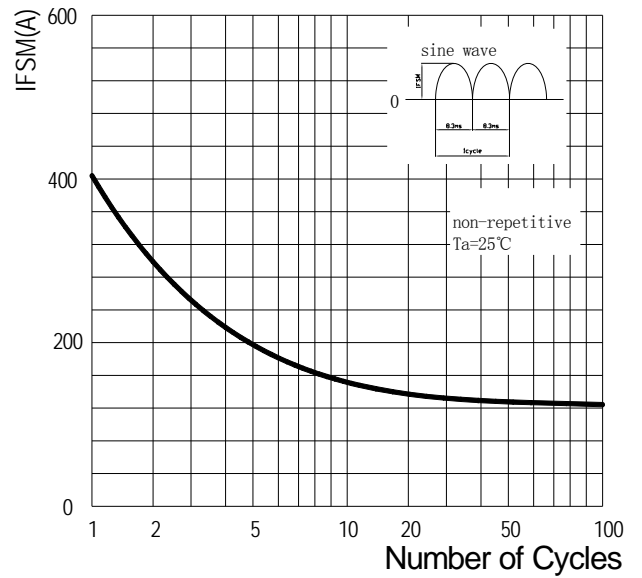


FIG3:Instantaneous Forward Voltage

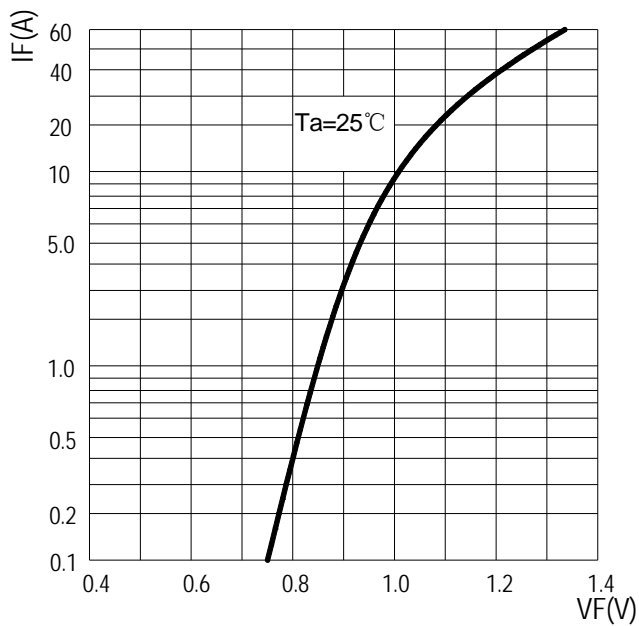
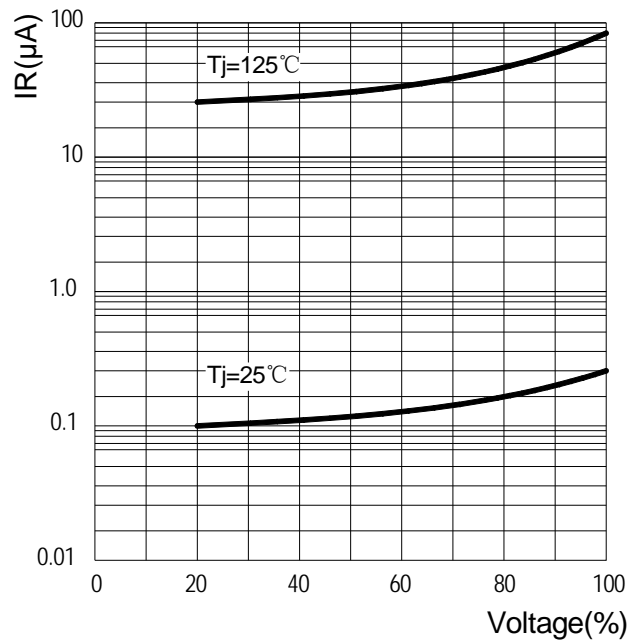


FIG4:Typical Reverse Characteristics





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Ordering Information :

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

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