

	E502650
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Features

- Glass Passivated Die Construction
- 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
- Vacuum Soldering Process Minimize The Solder Voids, Typical Voids Are 2% And Max Voids Less Than 8%

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 1.3°C/W Junction to Case
- Typical Thermal Resistance: 0.85°C/W Junction to Case

Mechanical Data

- Mounting Torque: 2 N·m Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MT3504A	MT3504A	400V	280V	400V
MT3506A	MT3506A	600V	420V	600V
MT3508A	MT3508A	800V	560V	800V
MT3510A	MT3510A	1000V	700V	1000V
MT3512A	MT3512A	1200V	840V	1200V
MT3514A	MT3514A	1400V	980V	1400V
MT3516A	MT3516A	1600V	1120V	1600V

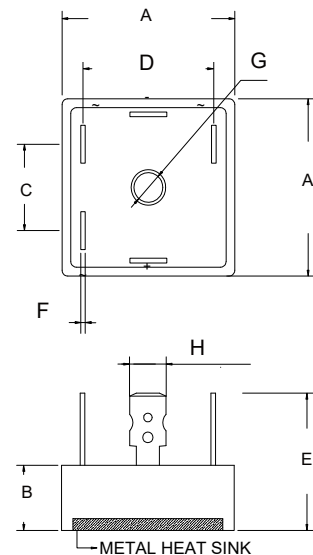
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	35A	$T_C = 55^\circ C$
Forward Surge Current(Nonrepetitive)	I_{FSM}	400A	60Hz Sine Wave, 1 Cycle,
Peak Forward Voltage	V_{FM}	1.2V	$I_{FM}=17.5A$, 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	660A ² S	1ms<t<8.3ms Rating of Per Diode
Dielectric Strength	V_{dis}	2.5KV	AC 1min, Terminals to Case

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

**35 Amp
Three Phases
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	0.354	0.394	9.00	10.00	
C	0.610	0.650	15.50	16.50	
D	0.917	0.957	23.30	24.30	
E	0.944		25.00		TYP.
F	0.029	0.033	0.75	0.85	
G	0.193		4.90		TYP.
H	0.244	0.251	6.20	6.40	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

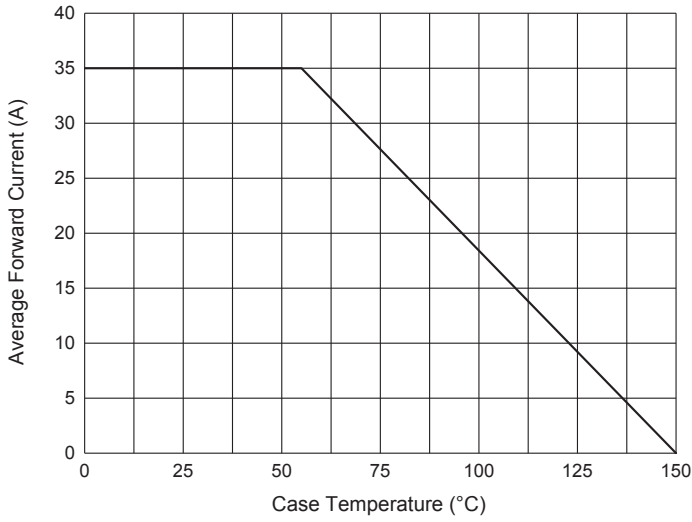


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

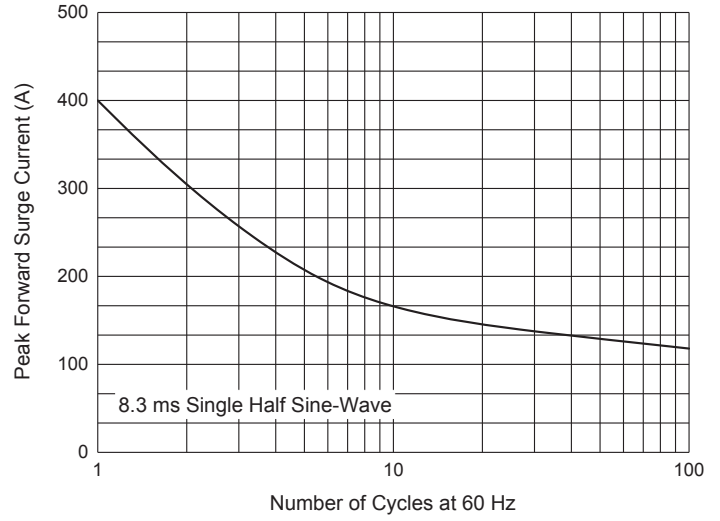


Fig. 3 - Typical Instantaneous Forward Characteristics

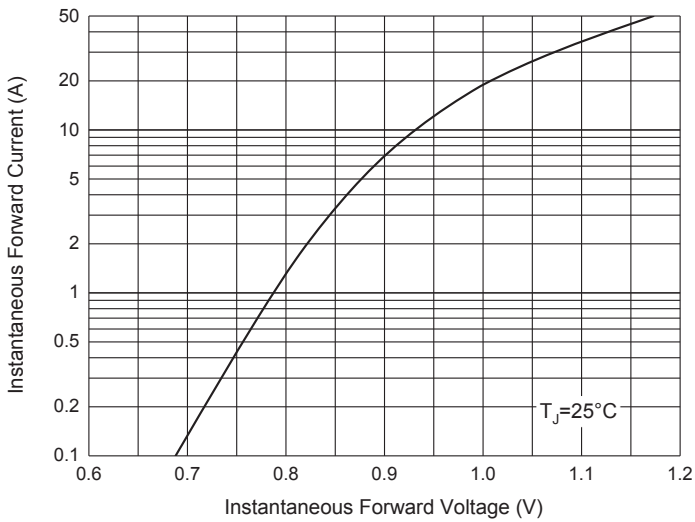


Fig. 4 - Typical Reverse Leakage Characteristics

