

AI

E502650

Features

- Glass Passivated Die Construction
- General Purpose 3 Phases 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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 0.88°C/W Junction to Case

Mechanical Data

Mounting Torgue: 2 N·m Maximum

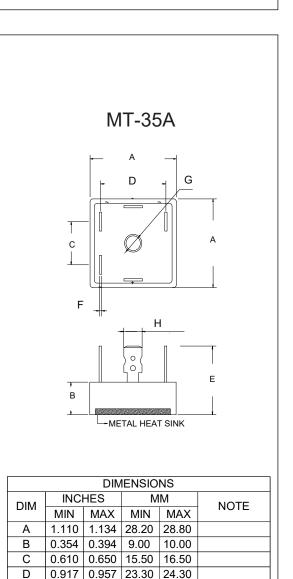
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MT5004A	MT5004A	400V	280V	400V
MT5006A	MT5006A	600V	420V	600V
MT5008A	MT5008A	800V	560V	800V
MT5010A	MT5010A	1000V	700V	1000V
MT5012A	MT5012A	1200V	840V	1200V
MT5014A	MT5014A	1400V	980V	1400V
MT5016A	MT5016A	1600V	1120V	1600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

	-		•
Average Forward Current	I _{F(AV)}	50A	T _C = 55°C
Forward Surge Current(Nonrepetitive)	I _{FSM}	500A	60Hz Sine Wave,1cycle,
Peak Forward Voltage	V_{FM}	1.2V	I _{FM} =25A,Pulse measurement, Rating of Per Diode
Peak Reverse Current	I _{RRM}	10µA	Pulse Measurement Rating of Per Diode
Current Squared Time	l²t	1042A ² S	1ms <t<8.3ms rating<br="">of Per Diode</t<8.3ms>
Dielectric Strength	Vdis	2KV	AC 1min, Terminals to Case

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

50 Amp Three Phases Bridge Rectifier 400 to 1600 Volts



25.00

0.75 0.85

4.90

6.20 6.40

D

Е

F

G

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0.944 0.029 0.033

0.193

0.244 0.251

TYP.

TYP.





Curve Characteristics

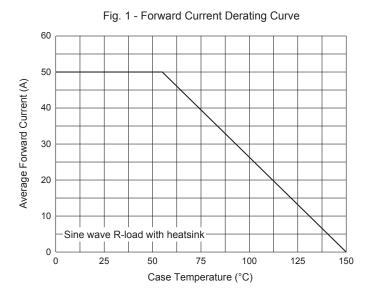
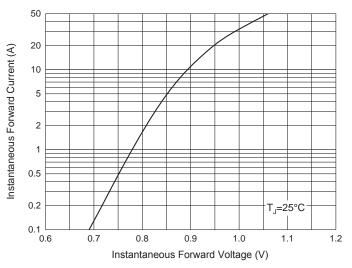


Fig. 3 - Typical Instantaneous Forward Characteristics



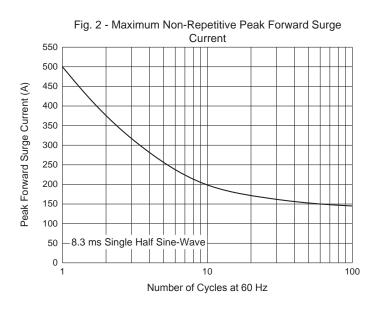
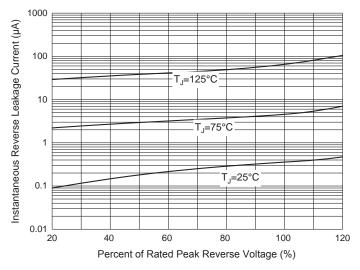


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-BP	Bulk: 50PCS/BOX:400PCS/CTN

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