

	<b>E502650</b>
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### Features

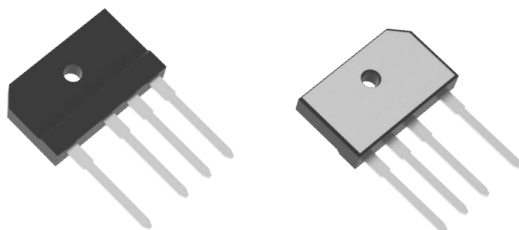
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Current Capability
- Superior Thermal Conductivity
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

### Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note2): 0.8°C/W Junction to Case
- Typical Thermal Resistance: 18°C/W Junction to Ambient

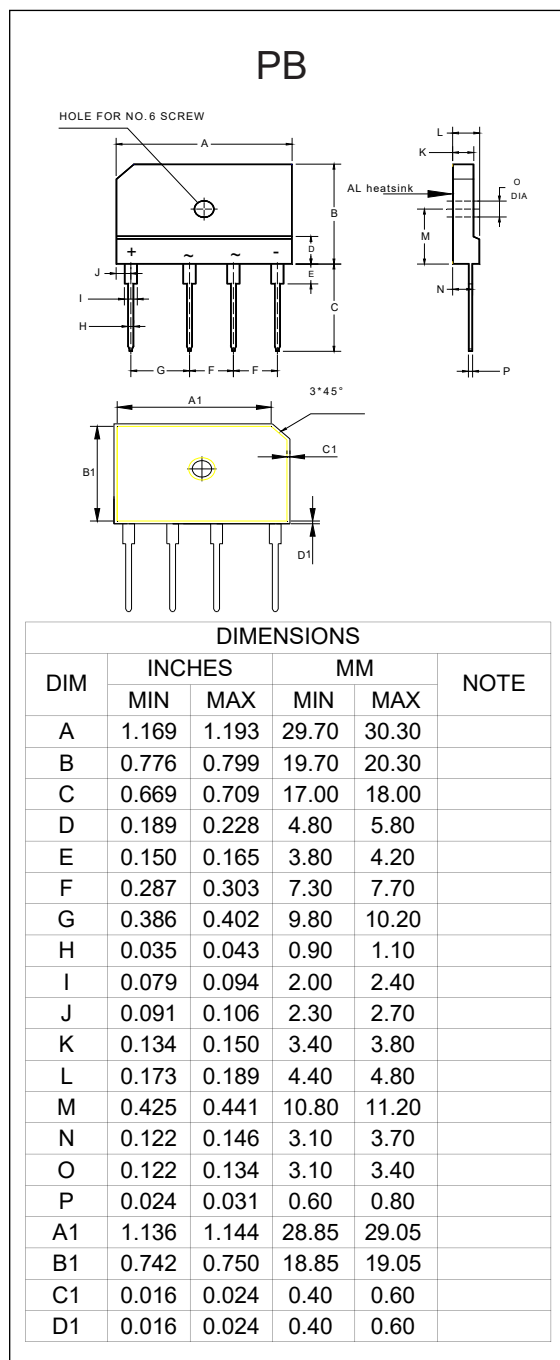
### Mechanical Data

- Mounting Torque: 5in-lbs



# 35 Amp Bridge Rectifier 50 - 1000 Volts

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
PB35005	PB35005	50V	35V	50V
PB3501	PB3501	100V	70V	100V
PB3502	PB3502	200V	140V	200V
PB3504	PB3504	400V	280V	400V
PB3506	PB3506	600V	420V	600V
PB3508	PB3508	800V	560V	800V
PB3510	PB3510	1000V	700V	1000V



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

Average Forward Current	$I_{F(AV)}$	35A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	400A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V 0.9V	$I_{FM} = 17.5A; T_J = 25^\circ\text{C}$ $I_{FM} = 17.5A; T_J = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5 $\mu$ A 250 $\mu$ A	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Dielectric Strength	$V_{dis}$	2.5KV	Terminals to Case, AC 1 Minute
Rating for Fusing	$I^2t$	664 A <sup>2</sup> s	1ms < t < 8.3ms

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.  
2. Unit Mounted on 100\*50\*2mm Aluminum Plate Heatsink.

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

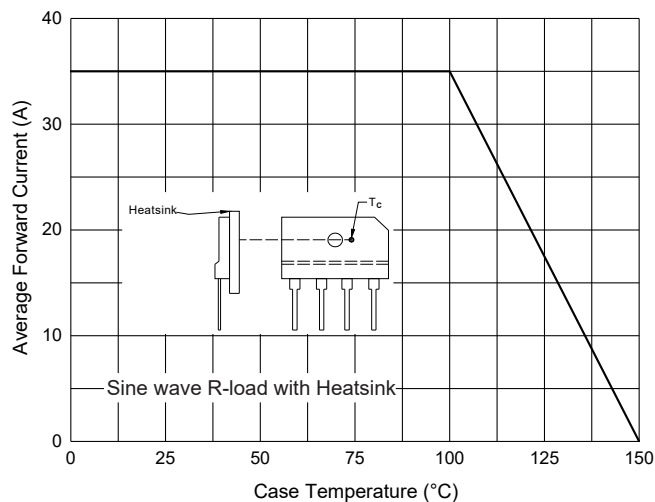


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

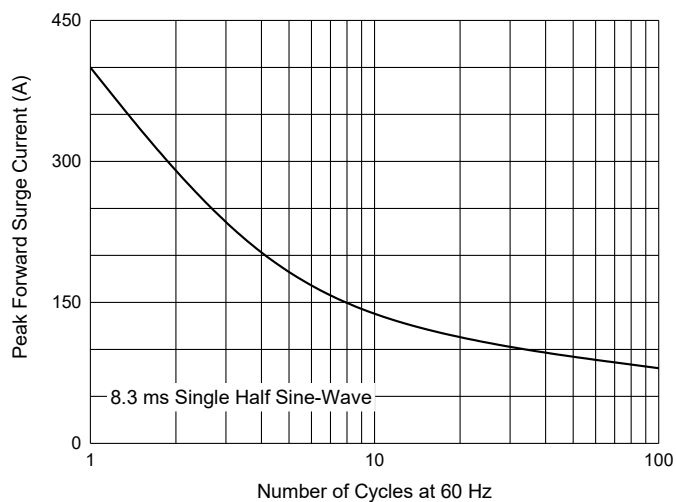


Fig. 3 - Typical Instantaneous Forward Characteristics

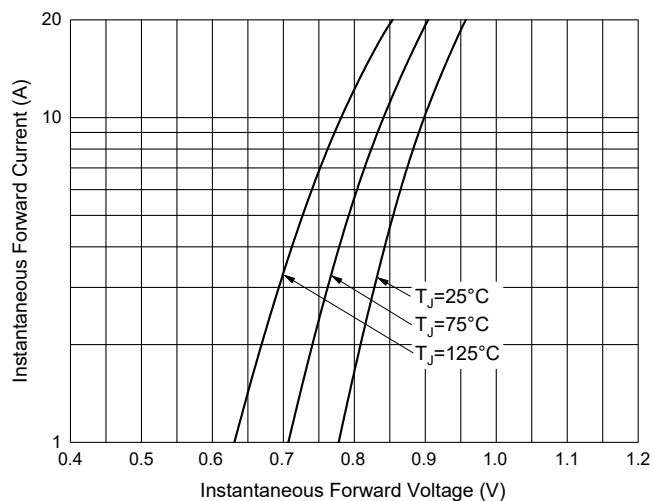


Fig. 4 - Typical Reverse Leakage Characteristics

