

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Very Low Forward Voltage Drop

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 0.45°C/W Junction to Case
- Typical Thermal Resistance: 40°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| GP60160B | GP60160B | 1600V | 1120V | 1600V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

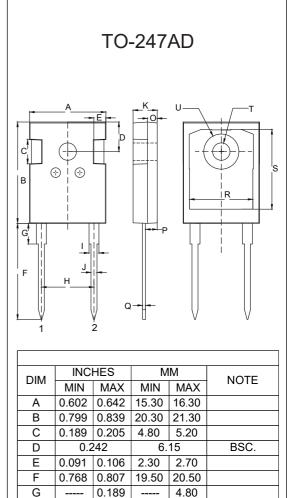
| Average Rectified Forward Current | I _{F(AV)} | 60A | T _C =100°C |
|---|--------------------|----------------------|--|
| Peak Forward Surge Current | I _{FSM} | 950A | 10ms,Half Sine |
| Current Squared Time | l²t | 4525A ² S | 1ms≤t≤10ms |
| Maximum Instantaneous Forward Voltage | V _F | 1.1V 1.3V | I _F =30A; T _A =25°C I _F =60A; T _A =25°C |
| Maximum Reverse Current At Rated DC Blocking Voltage | I _R | 5uA 0.5mA 1mA | T _A =25°C; T _A =125°C T _A =150°C |

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

Internal Structure

PIN 1 OCASE

60 Amp General Purpose Rectifier Diodes 1600 Volts



10.88

1.36

5.20

2.15

2.61

0.75

13.60

3.80

7.30

1.91 2.21

1.11

2.21

0.51

3.40

Н

I

J

Κ

0

Ρ

Q

R

S

Т

U

0.428

0.075 0.087

0.044 0.054

0.087 0.103

0.020 0.030

0.134 0.150

0.189 0.205 4.80

0.073 0.085 1.85

0.512 0.535 13.00

0.287

0.640 0.663 16.25 16.85

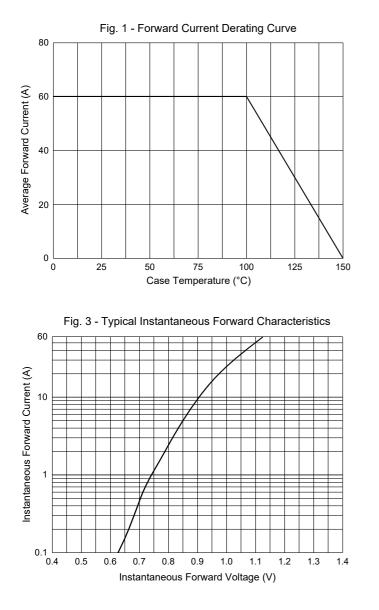
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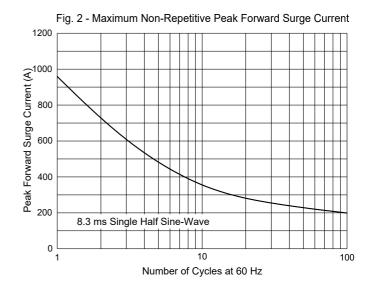
Φ

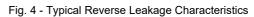
Φ

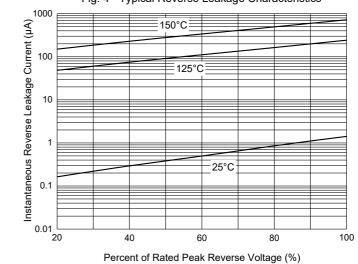


Curve Characteristics









2/3



Ordering Information

| Device | Packing | |
|----------------|---|--|
| Part Number-BP | Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton | |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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