

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Surge Forward Current Capability
- Glass Passivated Chip Junction
- Lead Free Finish/RoHS Compliant(Note 1) ("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
- Typical Thermal Resistance: 2.0°C/W Junction to Case

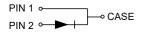
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GP3016	GP3016	1600V	1120V	1600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

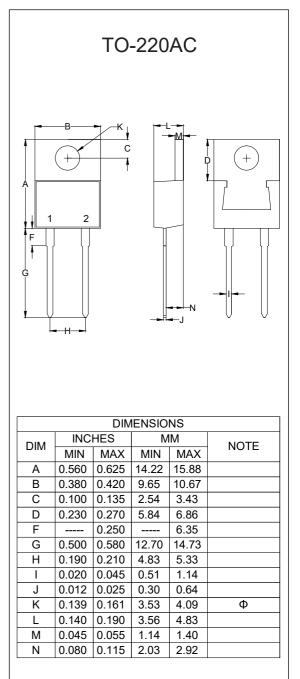
Average Forward Current	I _{F(AV)}	30A	T _C =85⁰C	
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,half sine	
Instantaneous Forward Voltage	V _F	1.20V(Max.) 1.12V(Typ.) 1.10V(Max.)	I _F =30A; T _J =25°C I _F =30A; T _J =25°C I _F =30A; T _J =125°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J =25⁰C T _J =125⁰C	
Typical Junction Capacitance	CJ	70pF	Measured at 1.0MHz , V _R =4.0V	

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

Internal Structure

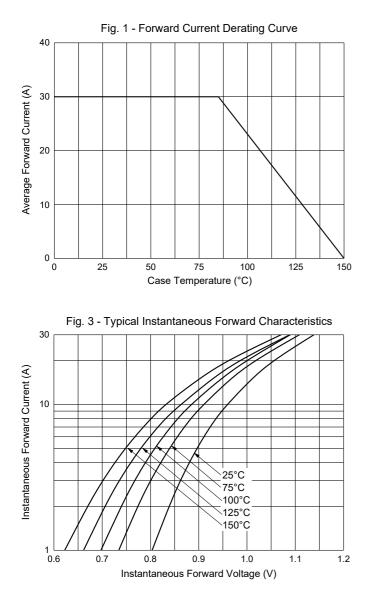


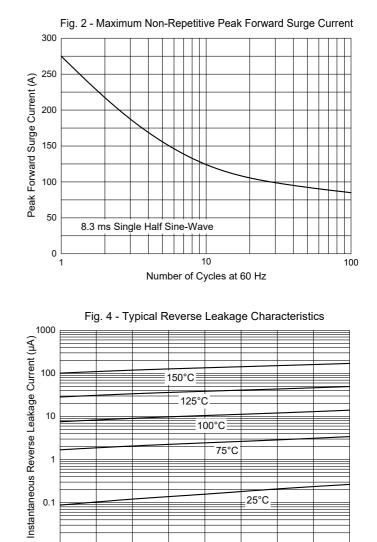
30 Amp General Purpose Rectifier 1600 Volts





Curve Characteristics





75°C

60

Percent of Rated Peak Reverse Voltage (%)

25°C_

80

100

0.01

20

40



Ordering Information

Device	Packing	
Part Number-BP	Tube: 50pcs/Tube, 1K/Box, 5k/Ctn .	

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

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