

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

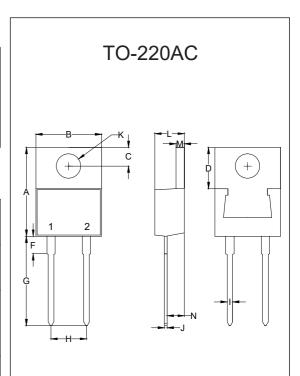
Average Forward Current	I _{F(AV)}	30A	T _C =85°C	
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,half sine	
Instantaneous Forward Voltage	V _F	1.20V(Max.) 1.12V(Typ.) 1.10V(Max.)	I _F =30A; T _J =25°C I _F =30A; T _J =25°C I _F =30A; T _J =125°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	T _J =25°C T _J =125°C	
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



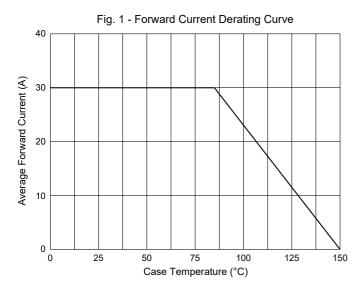
30 Amp General Purpose Rectifier 1600 Volts

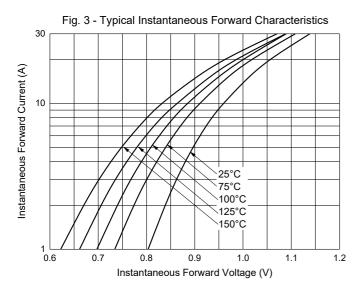


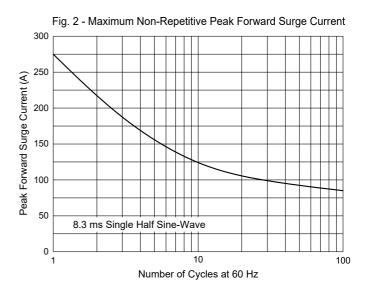
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.420	9.65	10.67		
С	0.100	0.135	2.54	3.43		
D	0.230	0.270	5.84	6.86		
F		0.250		6.35		
G	0.500	0.580	12.70	14.73		
Н	0.190	0.210	4.83	5.33		
I	0.020	0.045	0.51	1.14		
J	0.012	0.025	0.30	0.64		
K	0.139	0.161	3.53	4.09	Ф	
L	0.140	0.190	3.56	4.83		
М	0.045	0.055	1.14	1.40		
N	0.080	0.115	2.03	2.92		

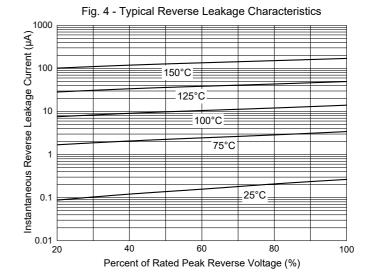


Curve Characteristics











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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