

Features

- Halogen Free. "Green" Device (Note 1)
- High Surge Forward Current Capability
- Glass Passivated Chip Junction
- Lead Free Finish/RoHS Compliant(Note 2) ("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: 3.0°C/W Junction to Case

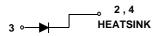
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GPB1510	GPB1510	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	15A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	220A	8.3ms,half sine
Instantaneous Forward Voltage	V _F	1.1V(Max.) 1.03V(Typ.) 1.0V(Max.)	I _F =15A; T _J =25°C I _F =15A; T _J =25°C I _F =15A; 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	50pF	Measured at 1.0MHz , V _R =4.0V

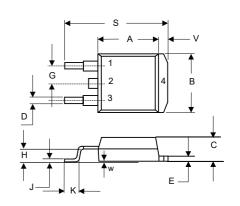
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



15 Amp General Purpose Rectifier 1000 Volts

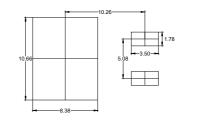
D²-PAK



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIL		
Α	0.331	0.370	8.40	9.40			
В	0.378	0.417	9.60	10.60			
С	0.165	0.189	4.20	4.80			
D	0.027	0.037	0.68	0.94			
E	0.045	0.055	1.14	1.40			
G	0.10		2.54		TYP.		
Н	0.096	0.134	2.43	3.40			
J	0.011	0.025	0.28	0.64			
K	0.071	0.131	1.80	3.32			
S	0.575	0.625	14.60	15.87			
V	0.042	0.058	1.07	1.47			
W	0.000	0.010	0.00	0.25			

Suggested Solder Pad Layout

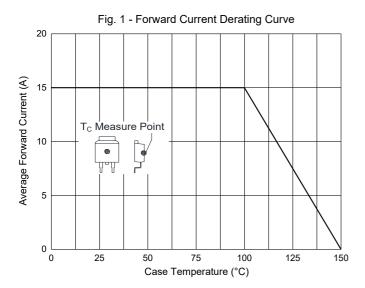
Unit:n

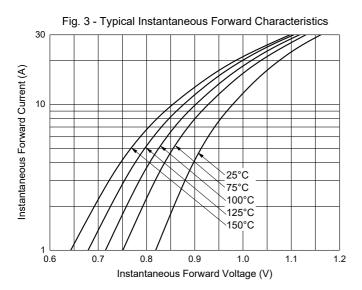


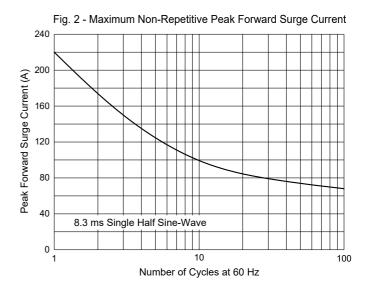
^{2.} High temperature solder exemption applied, see EU directive annex 7a.

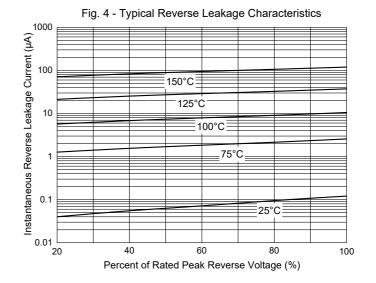


Curve Characteristics











Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Tube: 5Kpcs/Ctn		

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