

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 +175°C
- Storage Temperature Range: -55°C to +175°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
GPD2006C	GPD2006C	600V	420V	600V

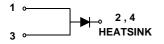
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	T _c =110⁰C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,half sine
Instantaneous Forward Voltage	V _F	1.1V(Max.) 1.0V(Typ.) 0.95V(Max.)	I _F =20A; T _J =25°C I _F =20A; T _J =25°C I _F =20A; T _J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 100μΑ	Tյ=25⁰C Tյ=125⁰C

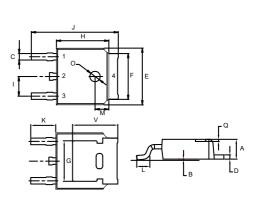
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

Internal Structure



20 Amp General Purpose Rectifier 600 Volts



DPAK(TO-252)

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	0.190		83	TYP.
Н	0.236	0.244	6.00	6.20	
I	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.114		2.90		TYP.
L	0.055	0.067	1.40	1.70	
М	0.063		1.60		TYP.
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.211		5.35		TYP.

100

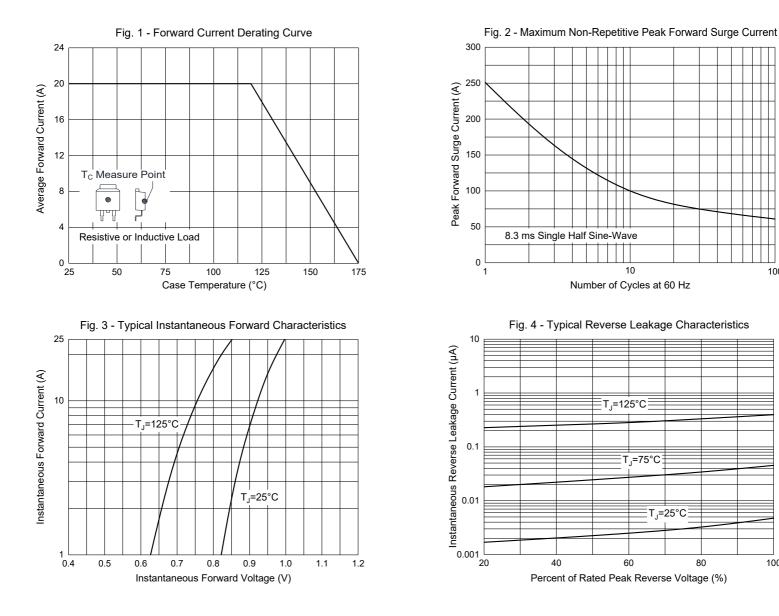
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80



Curve Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel		
Part Number-BP	Bulk: 80pcs/Tube;4Kpcs/Box;20Kpcs/Carton		

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