

## **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
- 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

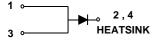
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
GPD2006C	GPD2006C	600V	420V	600V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =110°C	
Peak Forward Surge Current	I <sub>FSM</sub>	250A	8.3ms,half sine	
Instantaneous Forward Voltage	$V_{F}$	1.1V(Max.) 1.0V(Typ.) 0.95V(Max.)	I <sub>F</sub> =20A; T <sub>J</sub> =25°C I <sub>F</sub> =20A; T <sub>J</sub> =25°C I <sub>F</sub> =20A; T <sub>J</sub> =125°C	
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	5μΑ 100μΑ	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	

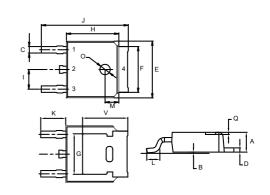
Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

#### **Internal Structure**



# 20 Amp General Purpose Rectifier 600 Volts

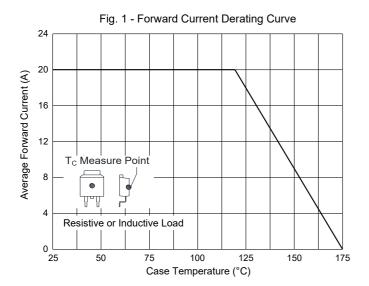
# **DPAK(TO-252)**

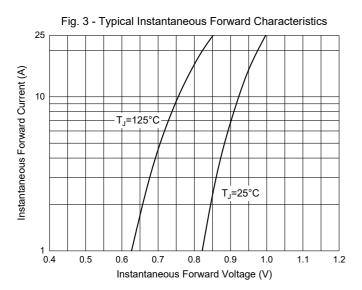


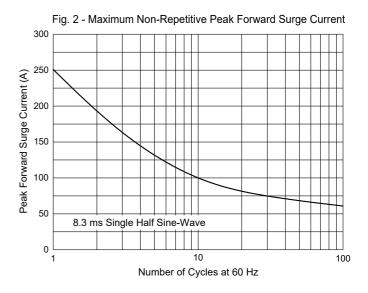
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.087	0.094	2.20	2.40		
В	0.000	0.005	0.00	0.13		
С	0.026	0.034	0.66	0.86		
D	0.018	0.023	0.46	0.58		
Е	0.256	0.264	6.50	6.70		
F	0.201	0.215	5.10	5.46		
G	0.190		4.83		TYP.	
Н	0.236	0.244	6.00	6.20		
ı	0.086	0.094	2.18	2.39		
J	0.386	0.409	9.80	10.40		
K	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.	

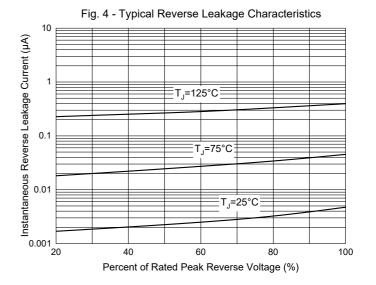


# **Curve Characteristics**











# **Ordering Information**

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

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

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