



Micro Commercial Components



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G2SB20 THRU G2SB80

2 Amp Glass Passivated Single-Phase Rectifiers 200 to 800 Volts

Features

- High case dielectric strength and High surge current capability
- Glass passivated chip junction
- Lead Free Finish/RoHS(NOTE 1)Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking : type number

Maximum Ratings

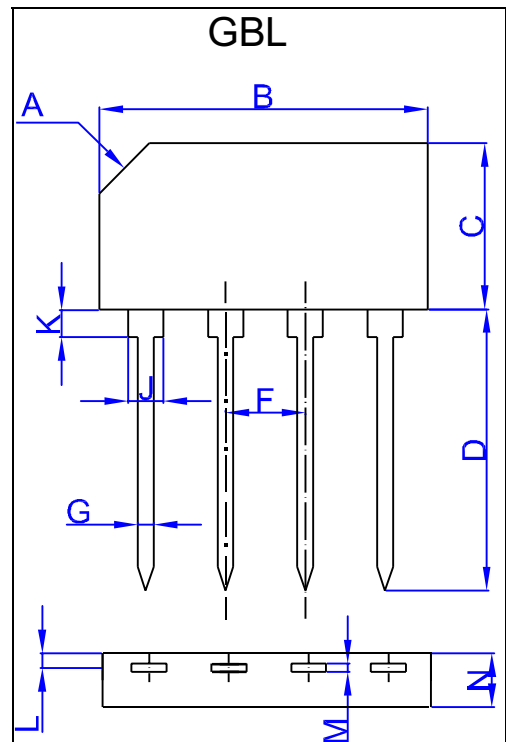
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
G2SB20	200V	140V	200V
G2SB60	600V	420V	600V
G2SB80	800V	560V	800V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Current	$I_{F(AV)}$	2 A	$T_A = 25^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	60A	8.3ms, half sine
Rating for fusing	I^2t	15A ² sec	t<8.3ms
Maximum Instantaneous Forward Voltage	V_F	1.1V	$I_{FM} = 1A;$ $T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 300uA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Typical thermal resistance per leg	$R\theta_{JA}$ $R\theta_{JL}$	40°C/W 12°C/W	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7.



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.125 X 0.125		3.17 X 3.17		X 45°
B	.768	.823	19.5	20.9	
C	.411	.453	10.4	11.5	
D	.682	.740	17.3	18.8	
F	.189	.209	4.80	5.30	
G	.035	.050	0.90	1.27	
J	.063	.098	1.60	2.50	
K	.060	.106	1.05	2.70	
L	.030	.031	0.76	1.20	
M	.016	.026	0.40	0.66	
N	.128	.146	3.25	3.70	

G2SB20 thru G2SB80

Fig. 1 - Derating Curve Output Rectified Current

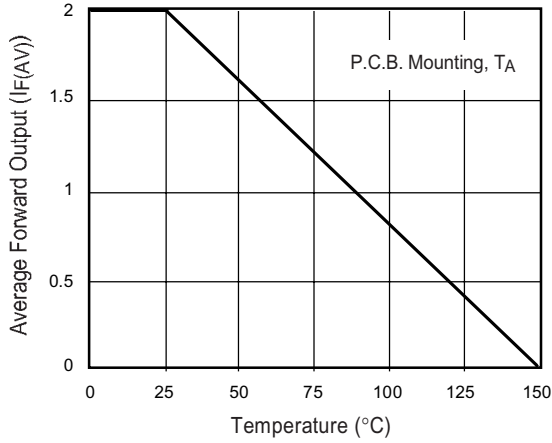


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

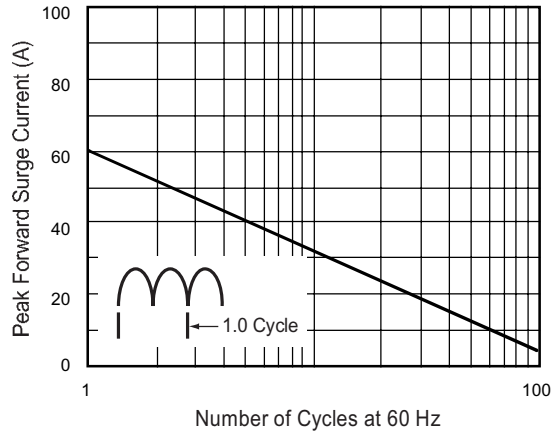


Fig. 3 - Typical Instantaneous Forward Characteristics

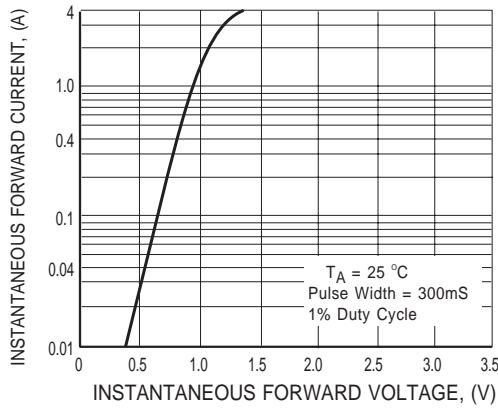
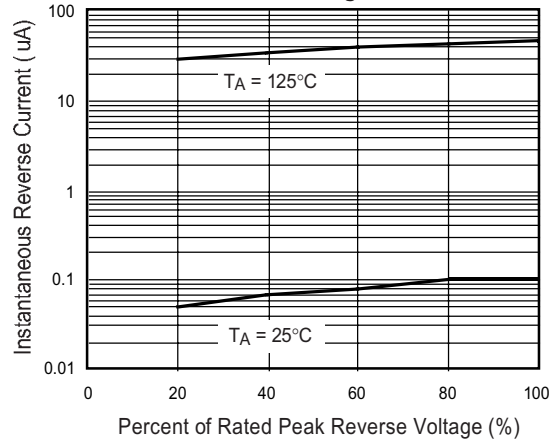


Fig. 4 - Typical Reverse Characteristics Per Leg





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Ordering Information

Device	Packing
(Part Number)-BP	Bulk: 1.35Kpcs/Box, 2.7Kpcs/Ctn

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