Micro Commercial Components
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G2SB20 THRU G2SB80

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

Features

- High case dielectric strength
- Glass passivated chip junction, Plastic package
- High surge current capability
- Ideal for printed circuit boards

Maximum Ratings

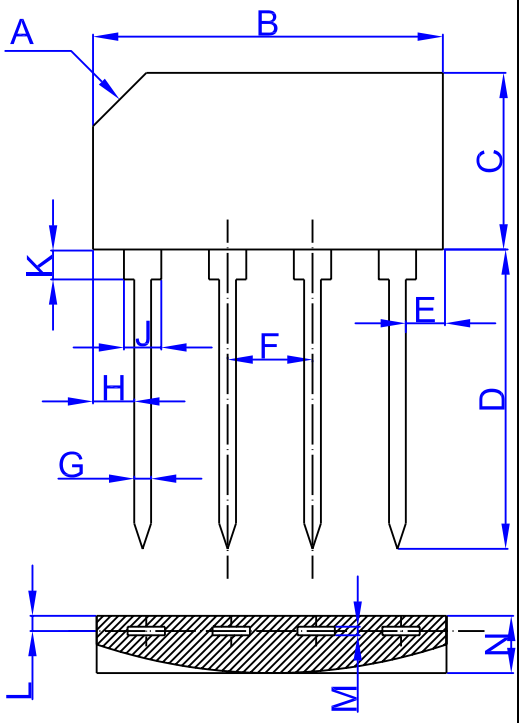
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

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	$I_{F(AV)}$	1.5 A	T_A = 25°C
Peak Forward Surge Current	I_{FSM}	80A	8.3ms, half sine
Rating for fusing	I^2t	$27A^2sec$	t<8.3ms
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 0.75A; T_A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 300uA	T_A = 25°C T_A = 125°C
Typical Junction Capacitance GBL005-04 GBL06-10	C_J	 95pF 40pF	Measured at 1.0MHz, V_R=4.0V
Typical thermal resistance per leg	$R\theta JA$ $R\theta JL$	40°C/W 12°C/W	

GBL



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.125 X 0.125		3.17 X 3.17		X 45°
B	.815	.825	20.7	20.9	
C	.411	.421	10.4	10.7	
D	.682	.718	17.3	18.2	
E	.075	.098	1.9	2.5	
G	.040	.050	1.02	1.27	
H	.075	.098	1.9	2.5	
J	.080	.095	2.03	2.41	
K	.060	.080	1.05	2.03	
L	.030	.040	0.76	1.02	
M	.018	.022	0.46	0.56	
N	.128	.140	3.25	3.56	

G2SB20 thru G2SB80

Fig. 1 - Derating Curve Output Rectified Current

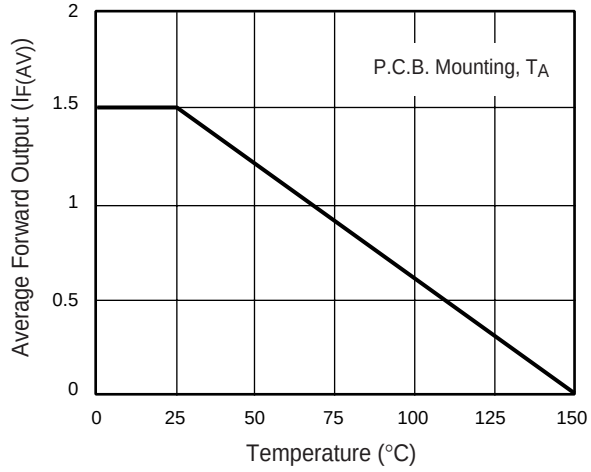


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg

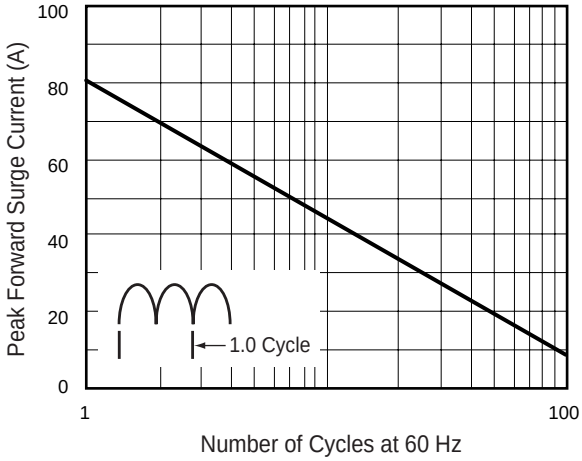


Fig. 3 - Typical Forward Characteristics Per Leg

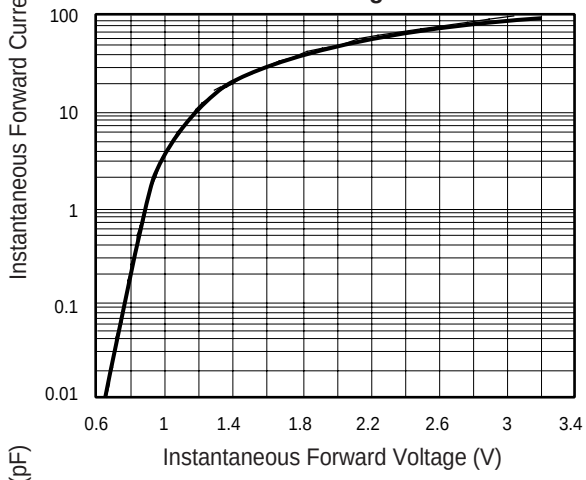


Fig. 4 - Typical Reverse Characteristics Per Leg

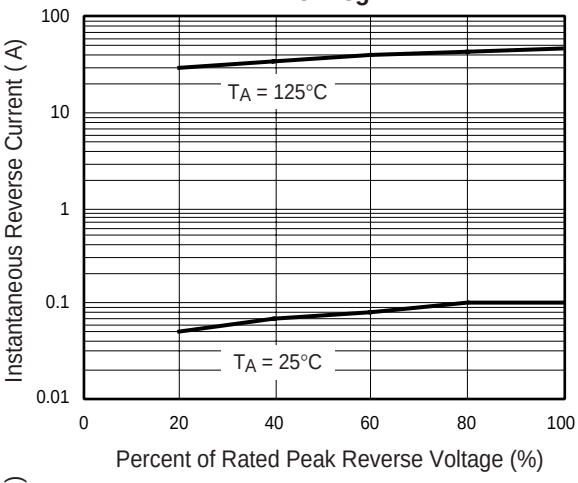


Fig. 5 - Typical Junction Capacitance Per Leg

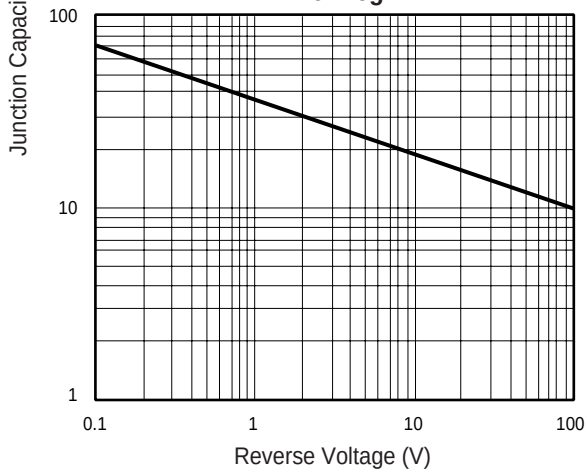


Fig. 6 - Typical Transient Thermal Impedance