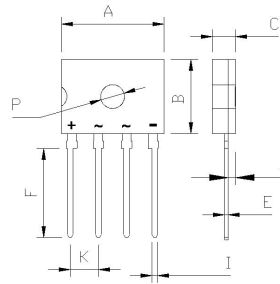


FEATURES

- Rating to 1000V PRV
- Surge overload rating to 120 Amperes peak
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208



GBS		
Dim	Min	Max
A	13.65	14.15
B	9.80	10.20
C	2.95	3.25
E	0.35	0.65
F	11.70	12.30
I	0.65	0.95
J	0.90	1.20
K	3.60	4.00
P	Ø3.2Typical	
All Dimensions in mm		

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	GBS 4A	GBS 4B	GBS 4D	GBS 4G	GBS 4J	GBS 4K	GBS 4M	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
50Hz sine wave, R-load Without heat sink Ta=25°C	$I_{F(AV)}$	1.5							A
50Hz sine wave, R-load With heat sink Tc=50°C		4.0							
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	135							A
I ² t Rating for fusing @Tj=25°C	I ² t	76							A ² S

Thermal Characteristics

Characteristic	Symbol	Value	UNITS
Typical thermal resistance per leg (Note1)	$R_{\theta JA}$	39	°C/W
	$R_{\theta JC}$	5.3	
Operating junction temperature range	T_J	- 55 ---- + 150	°C
Storage temperature range	T_{STG}	- 55 ---- + 150	°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	Value	UNITS
Maximum instantaneous forward voltage @2.0A @4.0A	V_F	1.0	V
		1.1	
Maximum reverse current @TA=25 °C at rated DC blocking voltage @TA=100°C	I_R	5.0	μA
		500	

Note:

1. Device mounted on PCB with 10 mm x 20 mm x 0.1mm copper pad areas

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

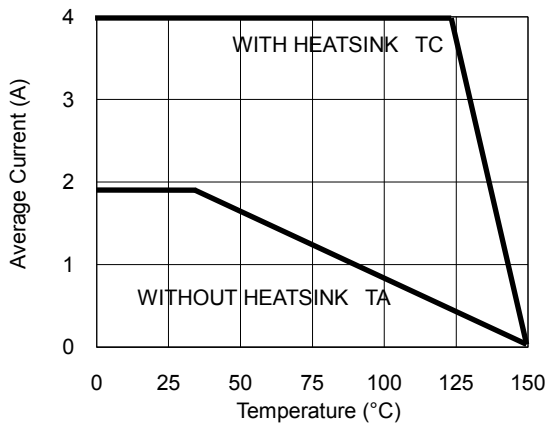


Fig.2- Surge Current Derating Curve

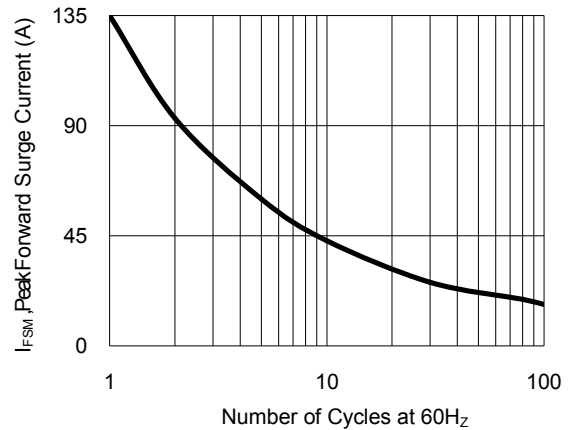


Fig.3- Typical Forward Voltage Characteristic

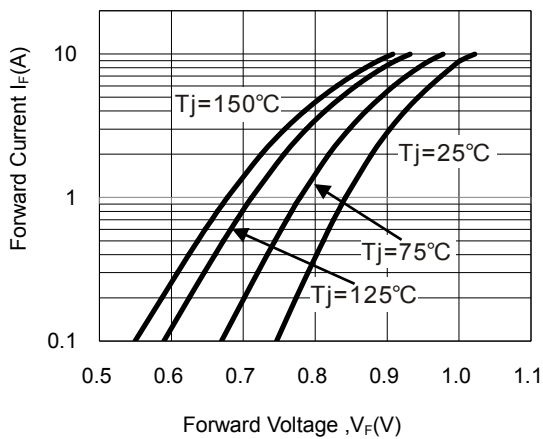


Fig.4- Typical Reverse Characteristic

