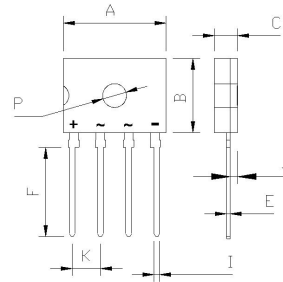


FEATURES

- Rating to 1000V PRV
- Surge overload rating to 140 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	GBS	GBS	GBS	GBS	GBS	GBS	UNITS	
		6A	6B	6D	6G	6J	6K	6M		
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 $T_a=25^\circ C$ 50Hz sine wave, R-load With heat sink $T_c=50^\circ C$	$I_{F(AV)}$	2.3 6.0								A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	170								A

Thermal Characteristics

Characteristic	Symbol	GBS	GBS	GBS	GBS	GBS	GBS	GBS	UNITS
		6A	6B	6D	6G	6J	6K	6M	
Rating for fusing ($t < 8.3$ ms)	I^2t	120							A2s
Typical junction capacitance per diode	C_J	95				40			pF
Typical thermal resistance	$R_{\theta JA}$	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 @3.0A @6.0A	V_F	1.0 1.1	V
Maximum reverse current @TA=25 °C at rated DC blocking voltage @TA=100°C	I_R	5.0 500	μ A

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

Fig.1-Forward Current Derating Curve

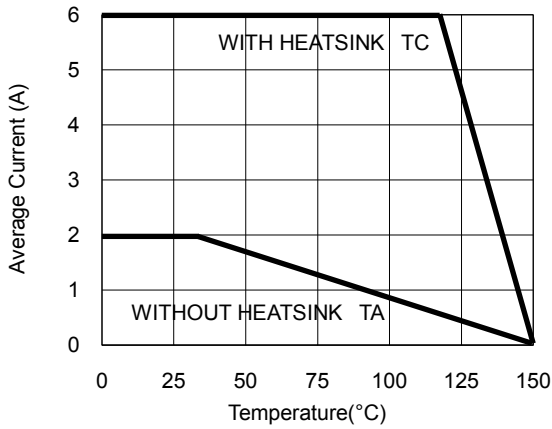


Fig.2- Surge Current Derating Curve

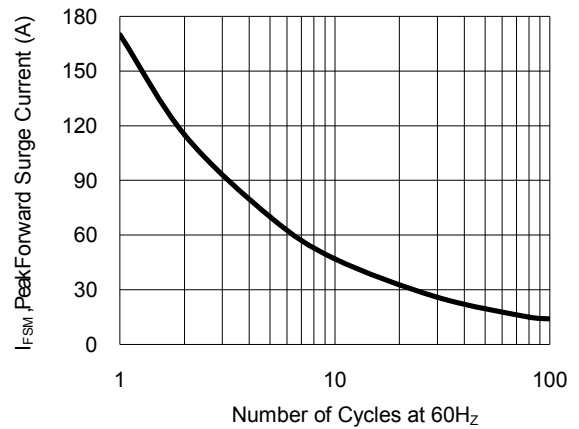


Fig.3- Typical Forward Voltage Characteristic

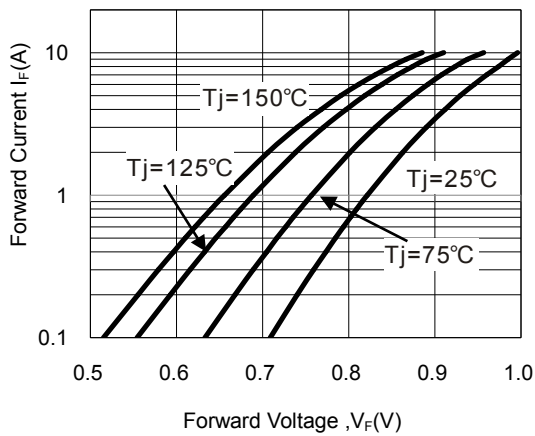


Fig.4- Typical Reverse Characteristic

