Elektronische Bauelemente

S6JB80

Voltage 800V

6.0 Amp Glass Passivited Bridge Rectifiers

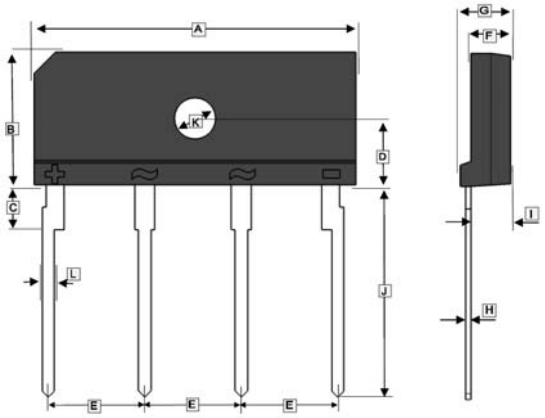
RoHS compliant product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product

JB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	24.7	25.3	G	3.6	4.0
B	10.0	10.6	H	0.3	0.7
C	1.7 TYP.		J	17.7	18.7
D	5.5	5.9	K	3.0	3.4
E	7.3	7.7	L	0.9	1.1
F	2.8	3.2			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	800	V
Maximum average forward rectified output current	T_C=125°C [1]	I_O	6	A
	T_A=25°C [2]		3	
Peak forward surge current 8.3 ms single sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	150	A
Maximum Peak Forward Voltage @ 3A		V_F	0.96	V
Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	T_A=25°C	I_R	5	μA
	T_A=125°C		150	
Rating for fusing@ t≦8.3ms		I^2T	93	A^2S
Typical Thermal Resistance per leg [1]		$R_{\theta JC}$	1.8	°C/W
Typical Thermal Resistance per leg [2]		$R_{\theta JA}$	26	°C/W
Operating and Storage temperature range		T_J,T_{STG}	-55~150	°C

Notes：

1. Unit case mounted on Al plate heatsink;
2. Units mounted on PCB without heatsink;
3. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.

RATINGS AND CHARACTERISTIC CURVES

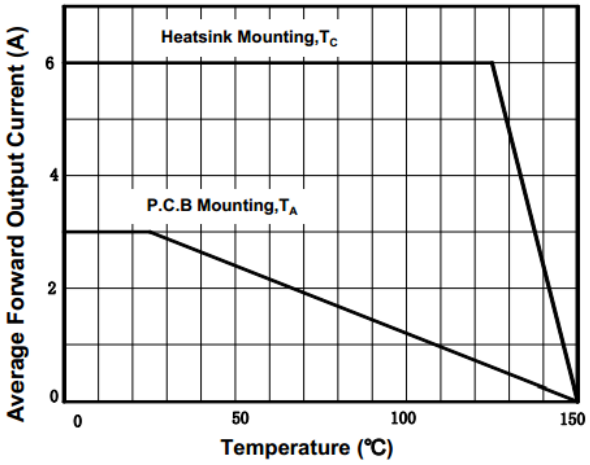


Figure 1. Derating Curve Output Rectified Current

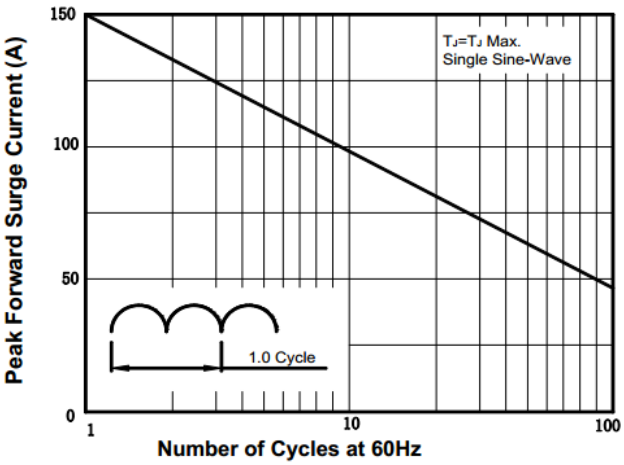


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current per Diode

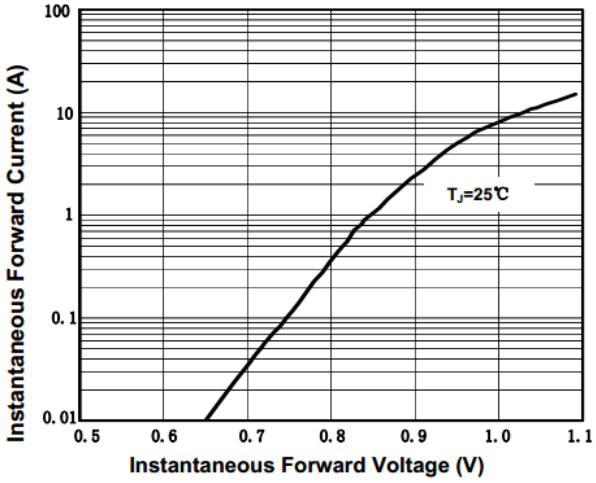


Figure 3. Typical Forward Characteristics Per Diode

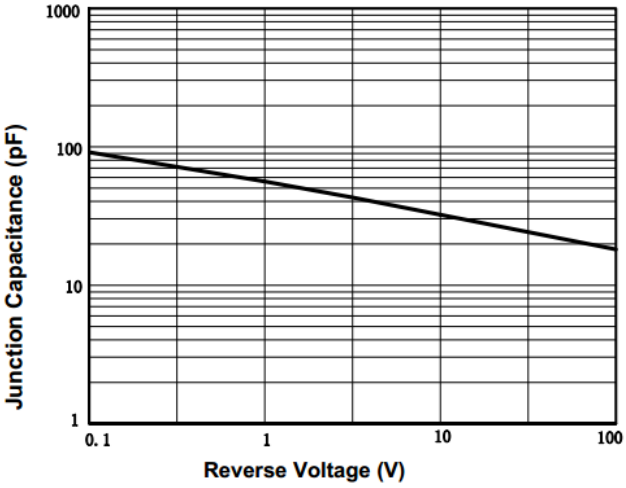


Figure 4. Typical Junction Capacitance Per Diode

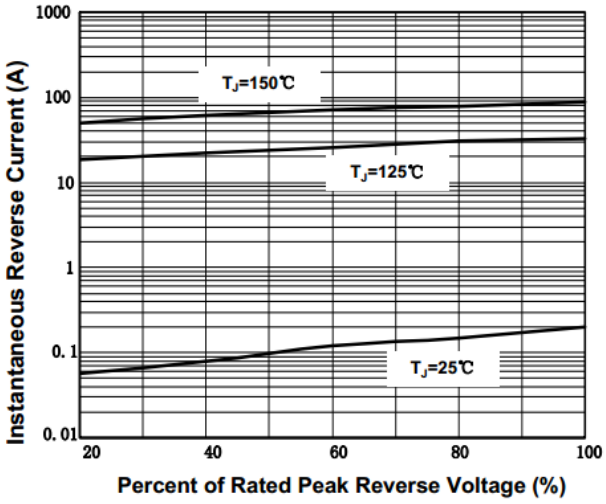


Figure 5. Typical Reverse Characteristics Per Diode