Elektronische Bauelemente

S6GBP20-C ~ S6GBP80-C

Voltage 200V ~ 800V

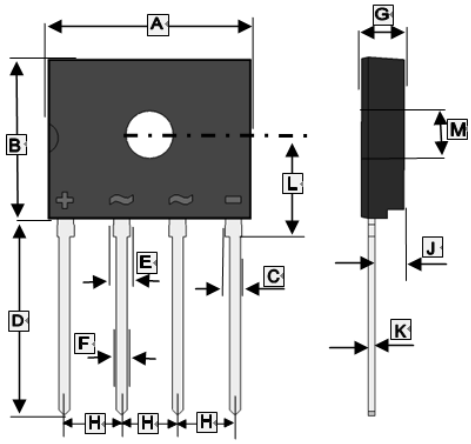
6.0 Amp Glass Passivited Bridge Rectifiers

RoHS Compliant Product

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
- These are Halogen & Pb Free components
- This series is UL recognized under Component Index, file number E255340

GBP



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	13.6	14.0	G	2.9	3.3
B	10.6	11	H	3.5	4.1
C	1	1.5	J	1.8	2.4
D	12.6	13.8	K	0.4	0.6
E	1.05	1.25	L	6.7	7.3
F	0.65	0.85	M	φ3.0	φ3.4

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

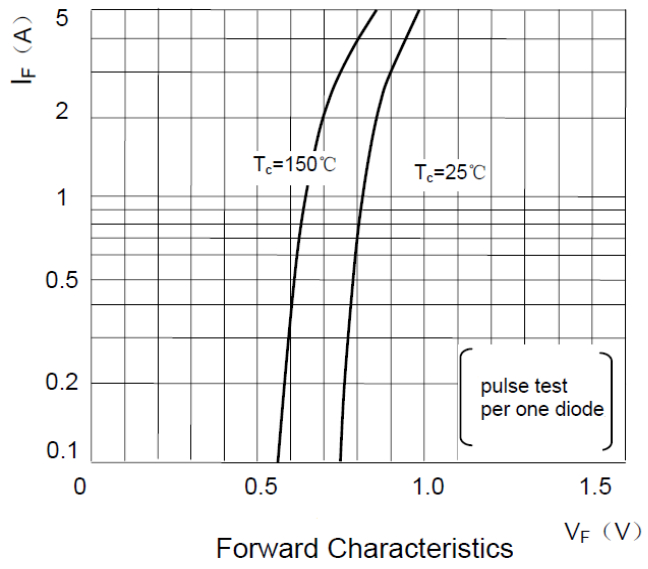
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number				Unit
			S6GBP20-C	S6GBP40-C	S6GBP60-C	S6GBP80-C	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	600	800	V
Average Rectified Output Current @60HZ sine wave, R-load	T_C=140℃ (with heat sink)	I_O	6				A
	T_A=29℃ (without heat sink)		1.8				
Peak Forward Surge Current @ 60H_Z sine wave, 1 cycle, T_J=25℃		I_{FSM}	150				A
Maximum Peak Forward Voltage[3]		V_{FM}	1				V
Peak Reverse Current [2]		I_{RRM}	10				μA
I^2t Rating for Fusing @3ms≤t＜8.3ms, T_J=25℃,Rating of per diode		I^2t	93				A^2s
Mounting Torque @ Recommend torque:5kg·cm		TOR	8				Kg・cm
Dielectric Strength[1]		Vdis	2				kV
Typical Thermal Resistance (with heat sink)		$R_{\theta JC}$	1.5				°C/W
Typical Thermal Resistance(without heat sink)		$R_{\theta JA}$	55				°C/W
Typical Thermal Resistance(without heat sink)		$R_{\theta JL}$	15				°C/W
Operating and Storage temperature range		T_J,T_{STG}	150, -55~150				°C

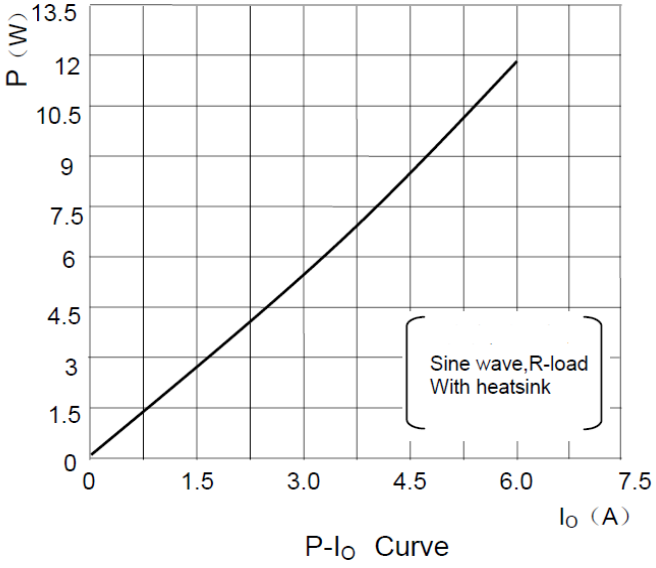
Notes：

1. Terminals to case，AC 1 minute
2. V_{RM}=V_{RRM}, Pulse measurement, Rating of per diode.
3. I_{FM}=3.0A, Pulse measurement, Rating of per diode

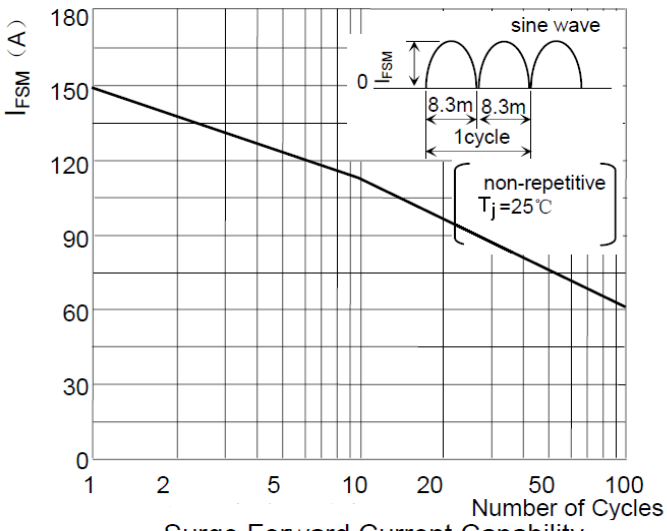
RATINGS AND CHARACTERISTIC CURVES



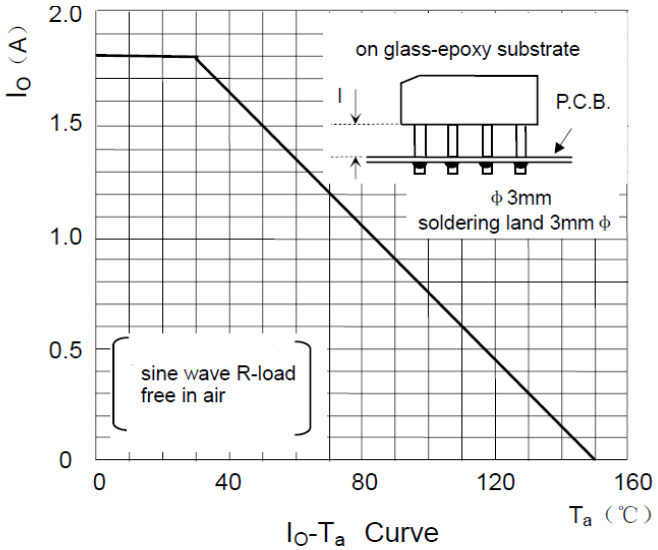
Forward Characteristics



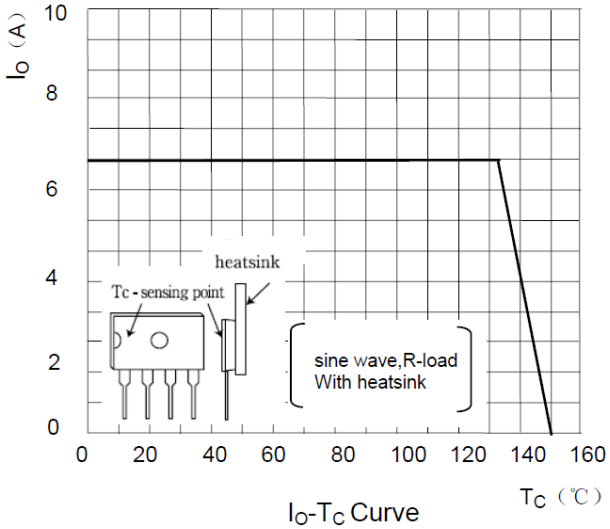
P-I_O Curve



Surge Forward Current Capability



I_O-T_a Curve



I_O-T_C Curve