Elektronische Bauelemente

S4GVB20-C ~ S4GVB80-C

Voltage 200V ~ 800V

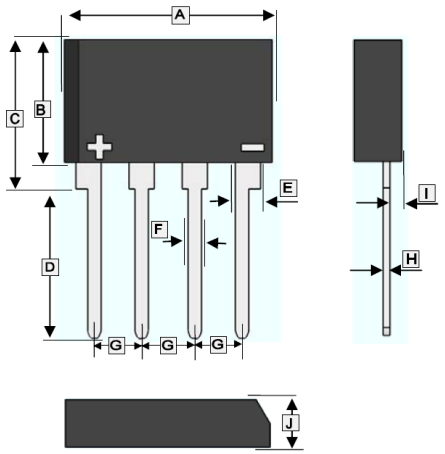
4.0 Amp Glass Passivited Bridge Rectifiers

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

GVB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	15.3	15.9	F	0.70	0.80
B	7.00	7.40	G	3.90	4.10
C	9.00	9.60	H	0.40	0.60
D	10.0	-	I	0.70	1.10
E	1.20	1.40	J	3.20	3.60

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

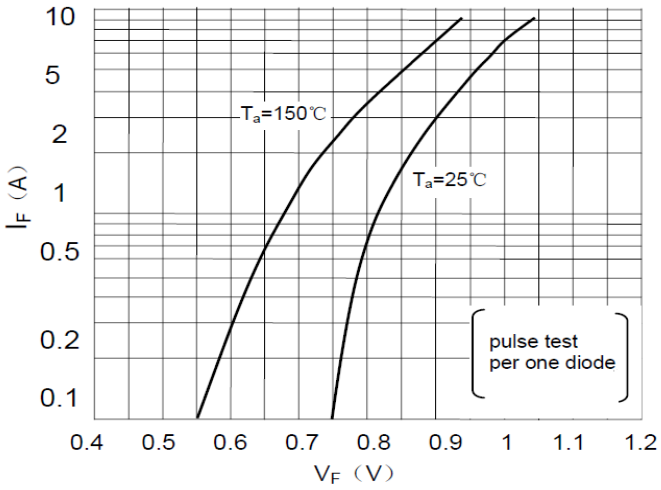
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Part Number				Unit
			S4GVB20-C	S4GVB40-C	S4GVB60-C	S4GVB80-C	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50Hz sine wave, R-load	Tc=110°C, (with heatsink)	I_O	4				A
	T_A=25℃ (without heatsink)		2.3				
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, T_A=25℃		I_{FSM}	120				A
Maximum Peak Forward Voltage[2]		V_{FM}	1.05				V
Peak Reverse Current [1]		I_{RRM}	5				μA
I^2t Rating for Fusing @1ms≤t＜10ms, T_J=25℃		I^2t	72				A^2s
Typical Thermal Resistance		$R_{\theta JA}$	62				°C/W
Typical Thermal Resistance		$R_{\theta JL}$	16				°C/W
Operating and Storage temperature range		T_J,T_{STG}	150, -40~150				°C

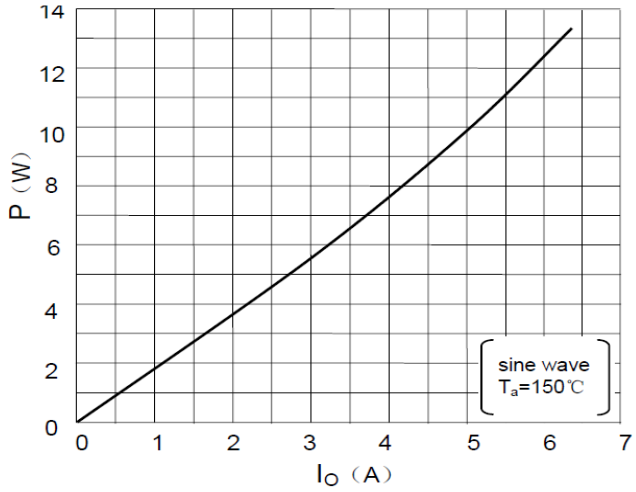
Notes：

1. V_{RM}=V_{RRM}, Pulse measurement, Rating of per diode.
2. I_{FM}=2A, Pulse measurement, Rating of per diode

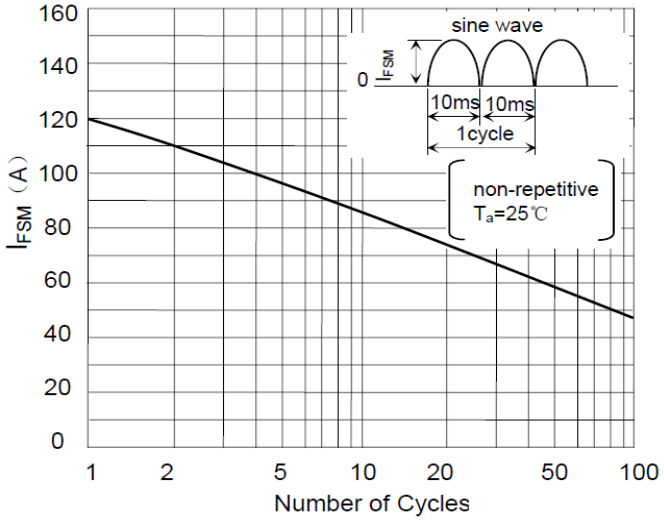
RATINGS AND CHARACTERISTIC CURVES



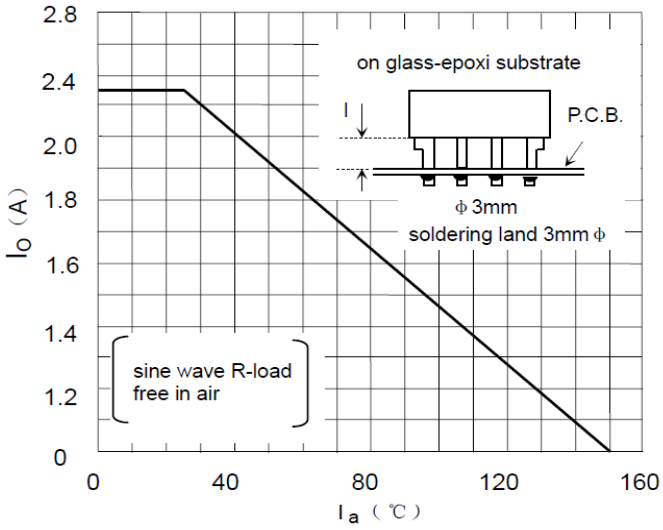
Forward Characteristics



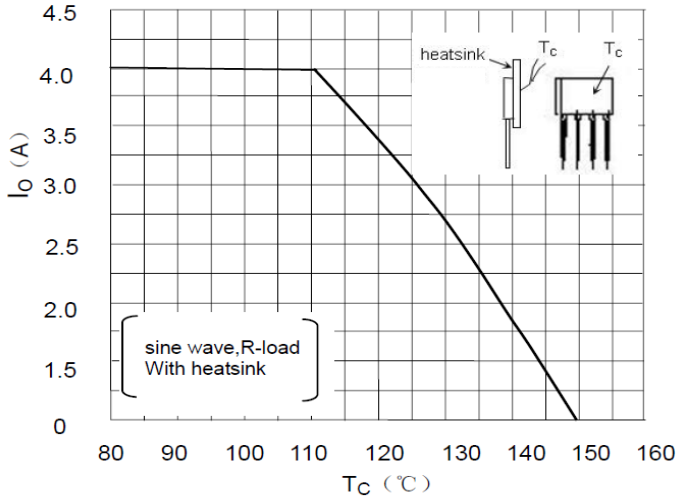
P-I_O Curve



Surge Forward Current Capability



I_O-T_a Curve



I_O-T_C Curve