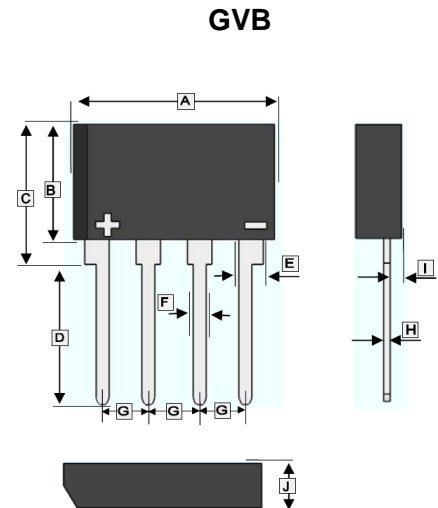


RoHS Compliant Product

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



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

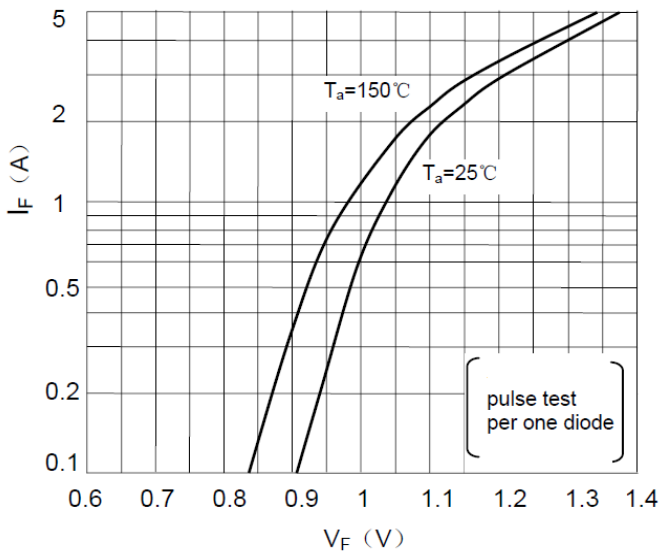
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		S1GVB20-C	S1GVB40-C	S1GVB60-C	S1GVB80-C	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50Hz sine wave, R-load, $T_A=25^\circ\text{C}$	I_O	1				A
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, $T_A=25^\circ\text{C}$	I_{FSM}	50				A
Maximum Peak Forward Voltage ²	V_{FM}	1.05				V
Peak Reverse Current ¹	I_{RRM}	10				μA
I^2t Rating for Fusing @ $1\text{ms} \leq t < 8.3\text{ms}$, $T_J=25^\circ\text{C}$	I^2t	10				A^2s
Typical Thermal Resistance	$R_{\theta JA}$	62				$^\circ\text{C/W}$
Typical Thermal Resistance	$R_{\theta JL}$	16				$^\circ\text{C/W}$
Operating and Storage temperature range	T_J, T_{STG}	150, -40~150				$^\circ\text{C}$

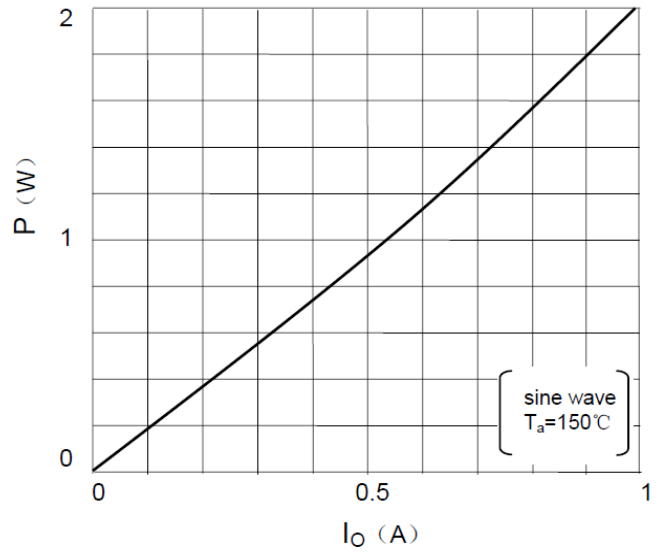
Notes :

1. $V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode.
2. $I_{FM}=0.5\text{A}$, Pulse measurement, Rating of per diode

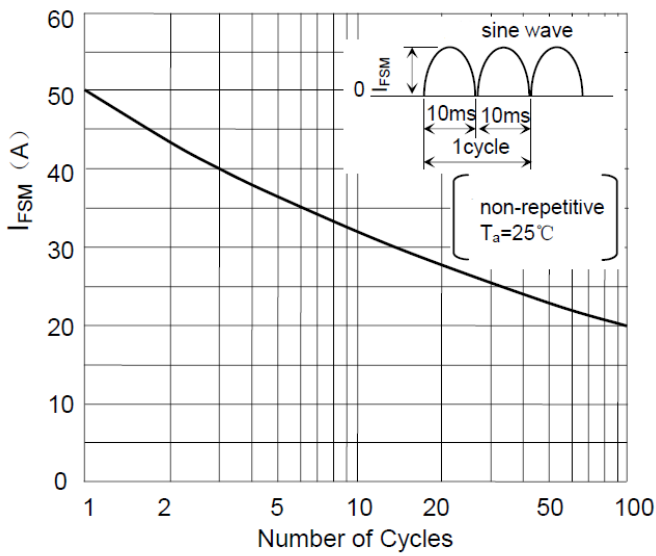
RATINGS AND CHARACTERISTIC CURVES



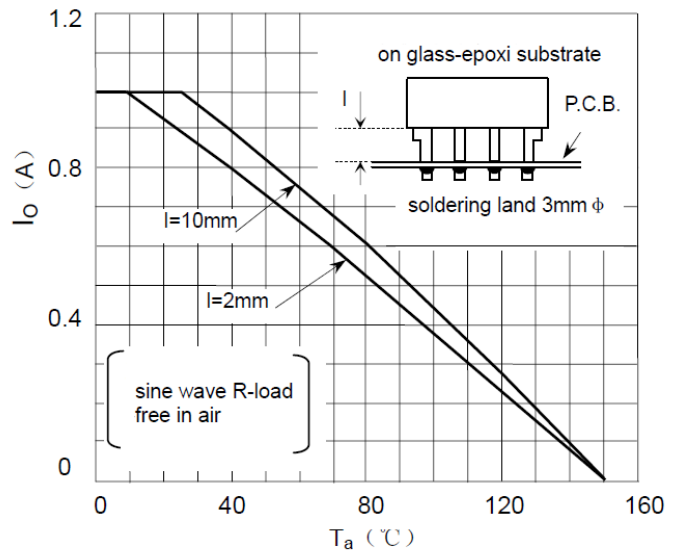
Forward Characteristics



P-IO Curve



Surge Forward Current Capability



IO-Ta Curve