Elektronische Bauelemente

S4GBL20-C ~ S4GBL80-C

Voltage 200V ~ 800V

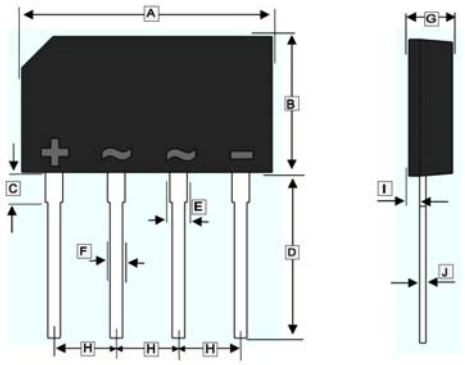
4.0 Amp Glass Passivited Bridge Rectifiers

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
- This series is UL recognized under Component Index, file number E255340

GBL



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	19.6	20.6	F	0.9	1.15
B	10.7	11.3	G	3.3	3.7
C	2.3	2.7	H	4.8	5.3
D	12.7	14.2	I	0.8	1.2
E	1.3	1.7	J	0.3	0.6

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

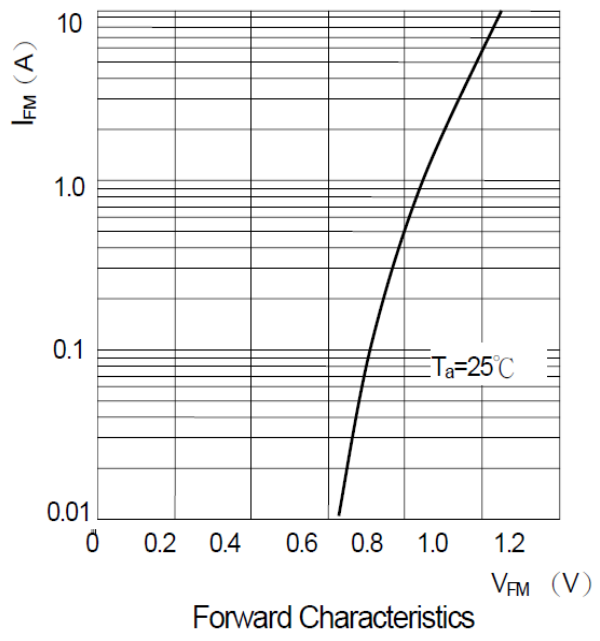
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		S4GBL20-C	S4GBL40-C	S4GBL60-C	S4GBL80-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°C	I_O	4				A
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, T_A=150°C	I_{FSM}	150				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＜8.3ms, T_J=25°C,Rating of per diode	I^2t	93				A^2s
Typical Thermal Resistance(without heat sink)	$R_{\theta JA}$	47				°C/W
Typical Thermal Resistance(without heat sink)	$R_{\theta JL}$	10				°C/W
Operating and Storage temperature range	T_J,T_{STG}	150, -40~150				°C

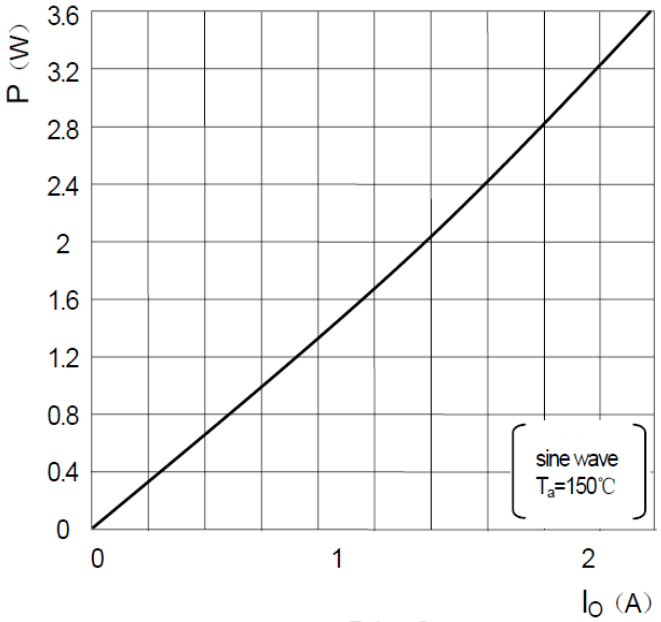
Notes：

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

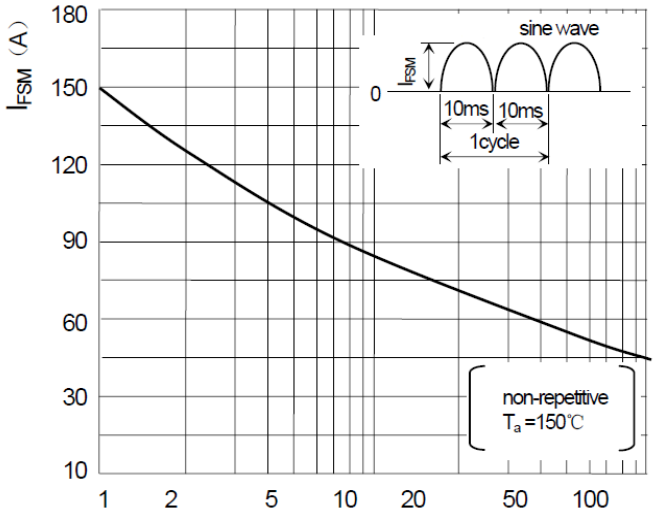
RATINGS AND CHARACTERISTIC CURVES



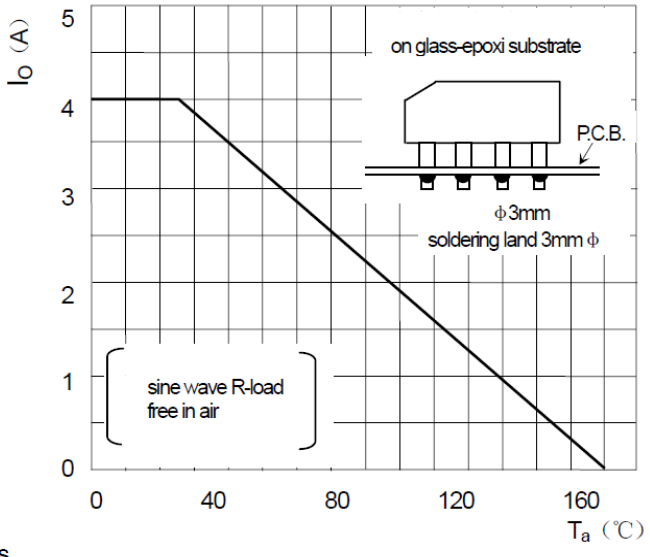
Forward Characteristics



P-I_O Curve



Surge Forward Current Capability



T_a-I_O Curve