Elektronische Bauelemente

S4KBJ20-C ~ S4KBJ80-C

Voltage 200V ~ 800V

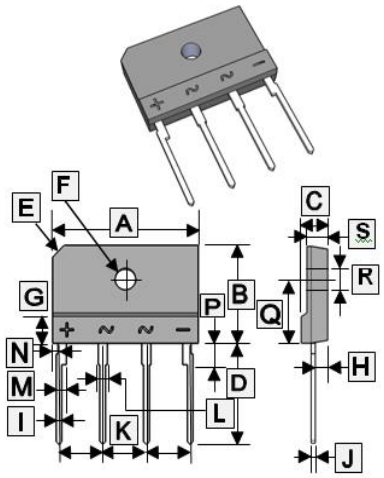
4.0 Amp Glass Passivited Bridge Rectifiers

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
- The plastic material has Underwriters Laboratory flammability classification 94V-0
- These are Halogen & Pb Free components

KBJ



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	24.7	25.3	J	0.6	0.8
B	14.7	15.3	K	7.3	7.7
C	4.4	4.8	L	1.5	1.9
D	17.0	18.0	M	1.7	2.1
E	3.0 x 45°		N	1.05	1.45
F	3.1	3.4	P	3.3	3.8
G	4.0		Q	9.3	9.7
H	2.5	2.9	R	3.1	3.4
I	0.9	1.1	S	3.4	3.8

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
			S4KBJ20-C	S4KBJ40-C	S4KBJ60-C	S4KBJ80-C	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50HZ sine wave, R-load	T_C=108℃ (with heat sink)	I_O	4				A
	T_A=25℃ (without heat sink)		2.3				
Peak Forward Surge Current @ 50H_Z sine wave, 1 cycle, T_A=25℃		I_{FSM}	120				A
Maximum Peak Forward Voltage[3]		V_{FM}	1.05				V
Peak Reverse Current [2]		I_{RRM}	10				μA
I^2t Rating for Fusing @1ms≤t＜8.3ms, T_J=25℃,Rating of per diode		I^2t	60				A^2s
Mounting Torque @ Recommend torque:5kg·cm		TOR	8				Kg・cm
Dielectric Strength[1]		Vdis	2				kV
Typical Thermal Resistance (with heat sink)		$R_{\theta JC}$	5.5				°C/W
Typical Thermal Resistance		$R_{\theta JA}$	30				°C/W
Typical Thermal Resistance(without heat sink)		$R_{\theta JL}$	6				°C/W
Operating and Storage temperature range		T_J,T_{STG}	150, -40~150				°C

Notes：

1. Terminals to case，AC 1 minute
2. V_{RM}=V_{RRM}, Pulse measurement, Rating of per diode.
3. I_{FM}=2.0A, Pulse measurement, Rating of per diode

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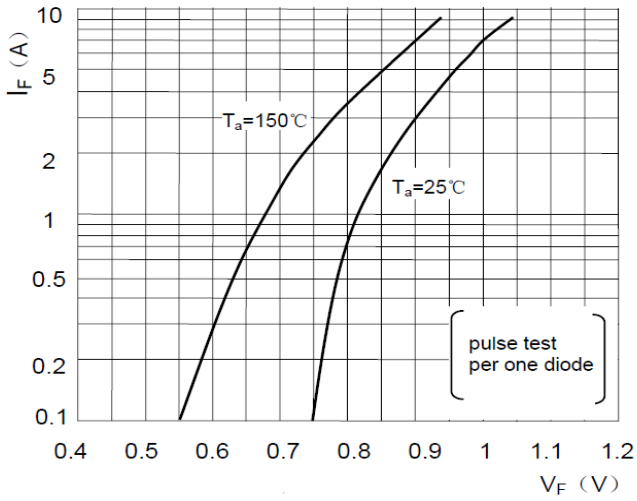
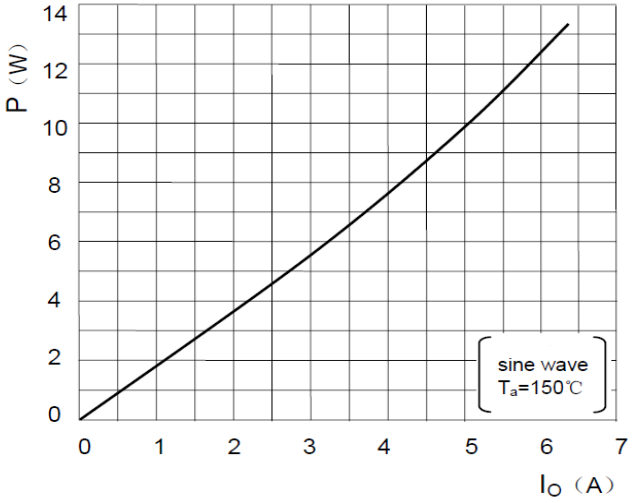
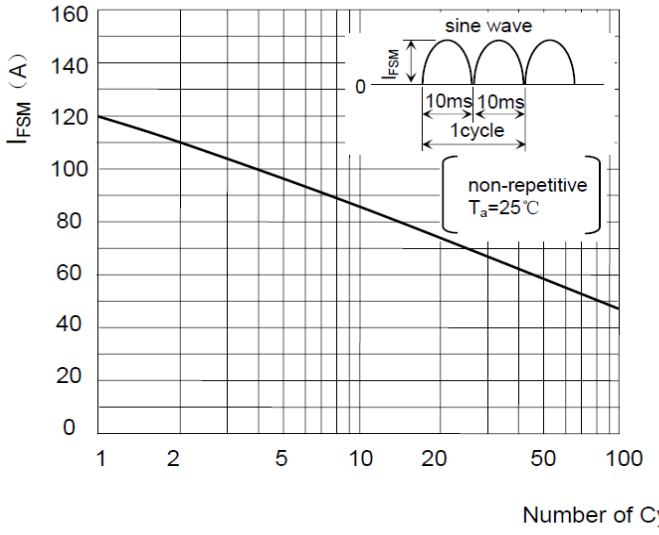
RATINGS AND CHARACTERISTIC CURVES



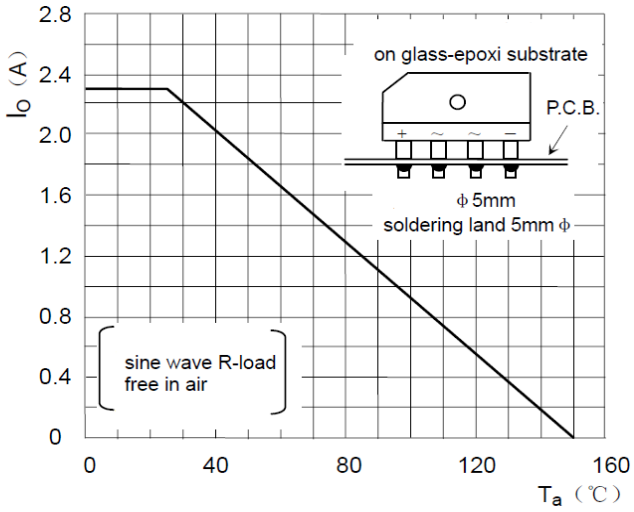
Forward Characteristics



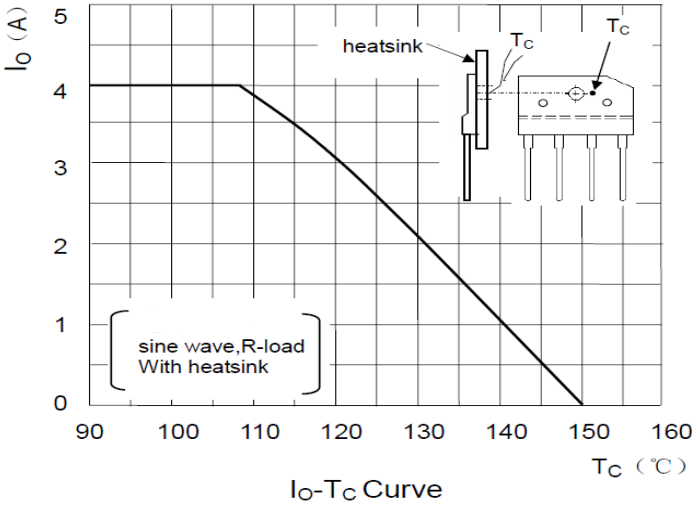
P-I_O Curve



Surge Forward Current Capability



I_O-T_a Curve



I_O-T_C Curve