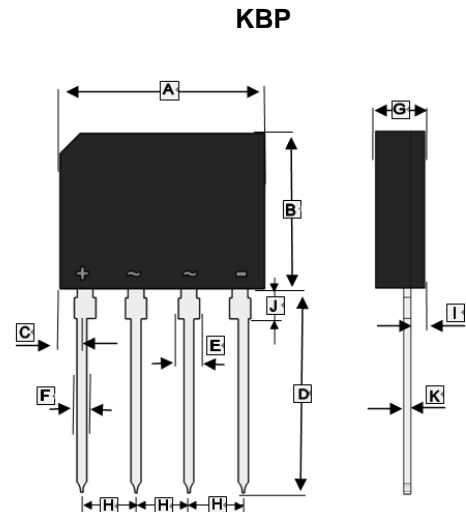


RoHS Compliant Product

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



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.30	14.70	G	3.40	3.60
B	10.80	11.20	H	3.70	3.90
C	1.35	1.75	I	0.90	1.10
D	14.00	15.00	J	2.10	2.30
E	1.30	1.70	K	0.40	0.60
F	0.60	0.80			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

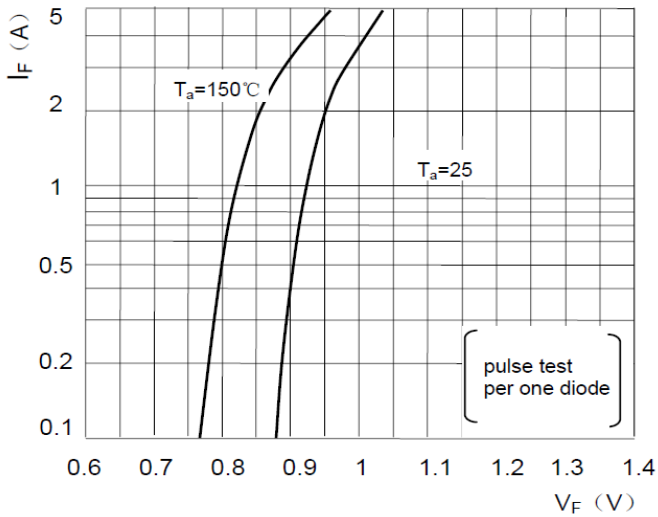
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Part Number				Unit
		S4KBP20-C	S4KBP40-C	S4KBP60-C	S4KBP80-C	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50Hz sine wave, R-load	$T_C=110^{\circ}C$, (with heatsink)	4				A
	$T_A=25^{\circ}C$ (without heatsink)	2				
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, $T_A=25^{\circ}C$	I_{FSM}	150				A
Maximum Peak Forward Voltage ²	V_{FM}	1				V
Peak Reverse Current ¹	I_{RRM}	5				μA
I^2t Rating for Fusing @ $1ms \leq t < 8.3ms$, $T_J=25^{\circ}C$, Rating of per diode	I^2t	93				A^2s
Typical Thermal Resistance (with heat sink)	$R_{\theta JC}$	1.5				$^{\circ}C/W$
Typical Thermal Resistance (without heat sink)	$R_{\theta JA}$	45				$^{\circ}C/W$
Typical Thermal Resistance (without heat sink)	$R_{\theta JL}$	8				$^{\circ}C/W$
Operating and Storage temperature range	T_J, T_{STG}	150, -40~150				$^{\circ}C$

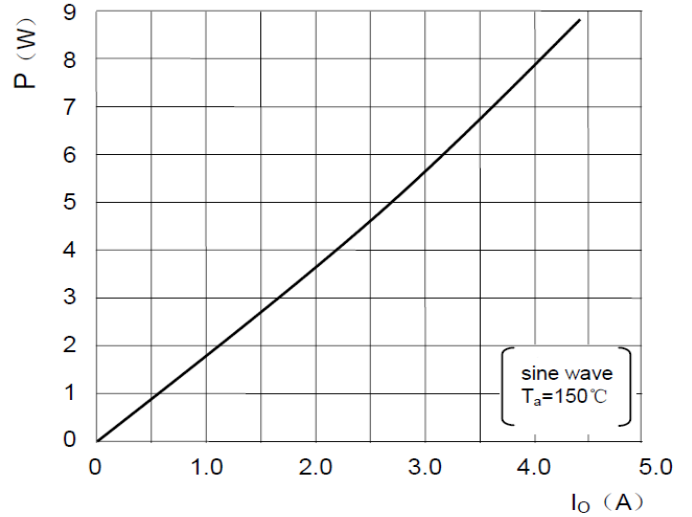
Notes :

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

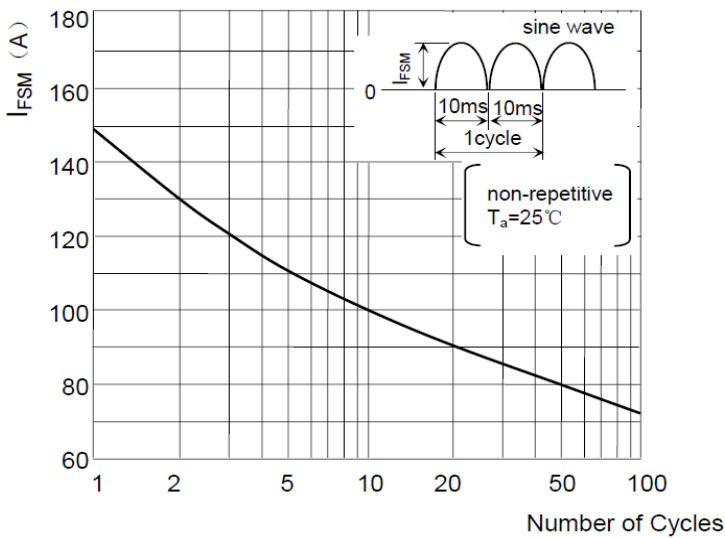
RATINGS AND CHARACTERISTIC CURVES



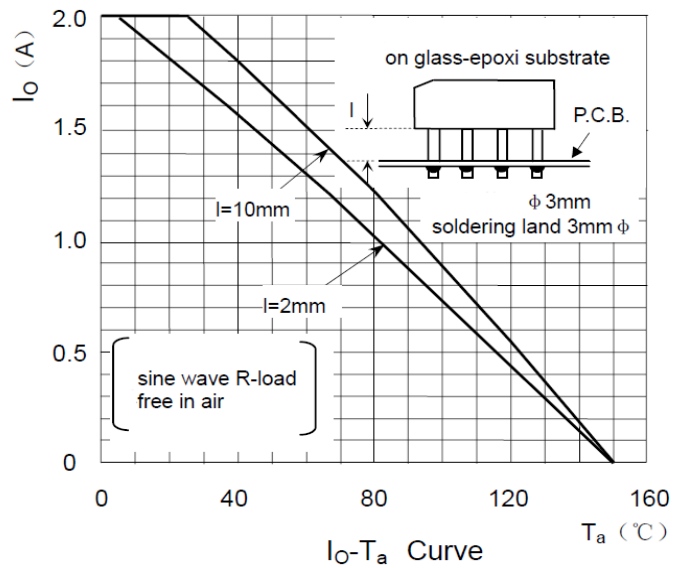
Forward Characteristics



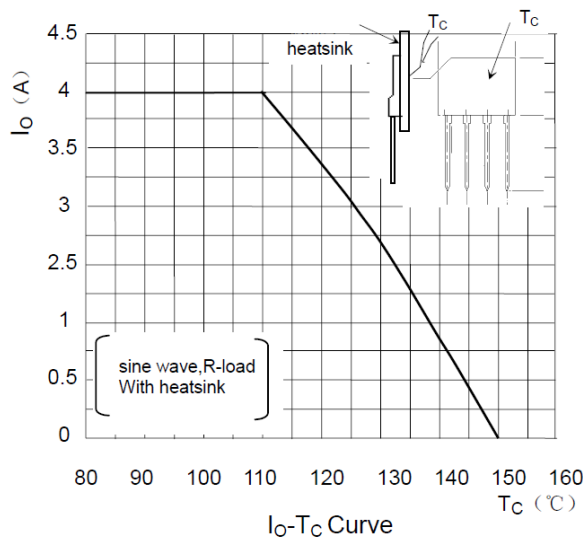
P- I_o Curve



Surge Forward Current Capability



I_o - T_a Curve



I_o - T_c Curve