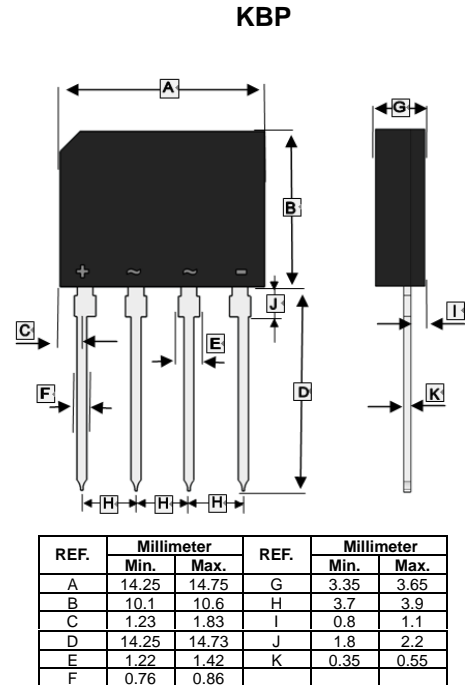


RoHS Compliant Product

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



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
		S2KBP20 -C	S2KBP40 -C	S2KBP60 -C	S2KBP80 -C	S2KBP100 -C	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Average Rectified Output Current @50HZ sine wave, R-load, $T_A=25^\circ\text{C}$	I_o	2					A
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, $T_A=25^\circ\text{C}$	I_{FSM}	80					A
Maximum Peak Forward Voltage ²	V_{FM}	1.1					V
Peak Reverse Current ¹	I_{RRM}	10					μA
I^2t Rating for Fusing @ $1\text{ms} \leq t < 8.3\text{ms}$, $T_J=25^\circ\text{C}$, Rating of per diode	I^2t	27					A^2s
Typical Thermal Resistance (with heat sink)	$R_{\theta JC}$	1.5					$^\circ\text{C/W}$
Typical Thermal Resistance (without heat sink)	$R_{\theta JA}$	45					$^\circ\text{C/W}$
Typical Thermal Resistance (without heat sink)	$R_{\theta JL}$	8					$^\circ\text{C/W}$
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. $I_{FM}=1.0\text{A}$, Pulse measurement, Rating of per diode

RATINGS AND CHARACTERISTIC CURVES

