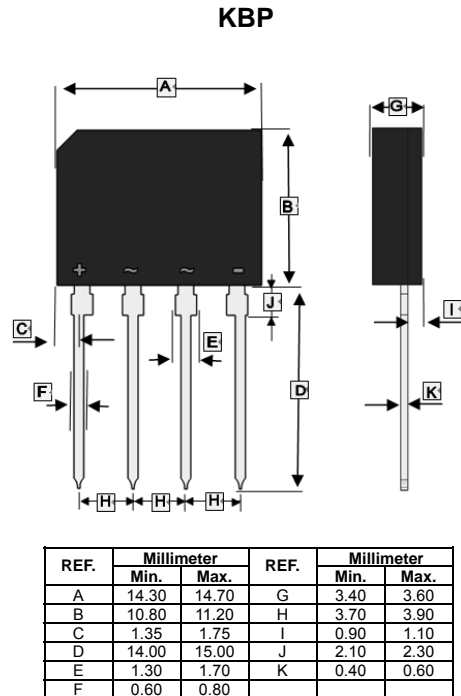


RoHS Compliant Product

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
		S3KBP20-C	S3KBP40-C	S3KBP60-C	S3KBP80-C	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	V
Average Rectified Output Current @50Hz sine wave, R-load	I_O	3				A
		2				
		2				
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}	1.05				V
Peak Reverse Current ¹	I_{RRM}	10				μA
I^2t Rating for Fusing @1ms ≤ t < 8.3ms, $T_J=25^\circ\text{C}$, Rating of per diode	I^2t	34				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. $I_{FM}=1.5\text{A}$, Pulse measurement, Rating of per diode

RATINGS AND CHARACTERISTIC CURVES

