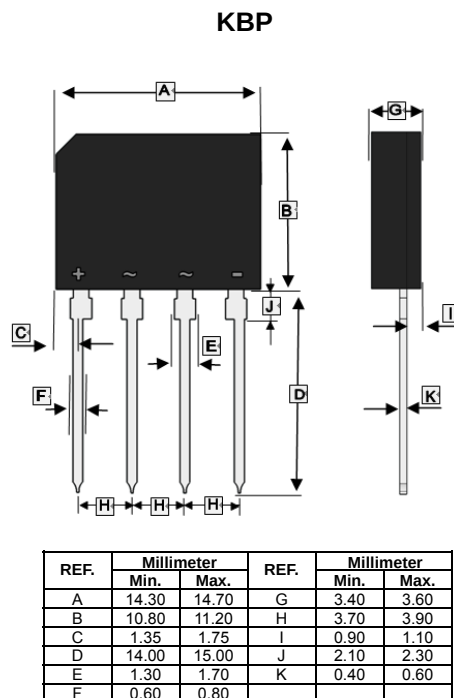


RoHS Compliant Product

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	T _C =140°C (with heatsink)	I _O	3				A
	T _A =25°C (without heatsink)		2				
	T _C =92°C (without heatsink)		2				
Peak Forward Surge Current @ 50Hz sine wave, 1 cycle, T _A =25°C		I _{FSM}	80				A
Maximum Peak Forward Voltage ²		V _{FM}	1.05				V
Peak Reverse Current ¹		I _{RRM}	10				μA
I ² t Rating for Fusing @1ms≤t<8.3ms, T _J =25°C, Rating of per diode		I ² t	34				A ² s
Typical Thermal Resistance (with heat sink)		R _{θJC}	1.5				°C/W
Typical Thermal Resistance(without heat sink)		R _{θJA}	45				°C/W
Typical Thermal Resistance(without heat sink)		R _{θJL}	8				°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. $I_{FM}=1.5\text{A}$, Pulse measurement, Rating of per diode

RATINGS AND CHARACTERISTIC CURVES

