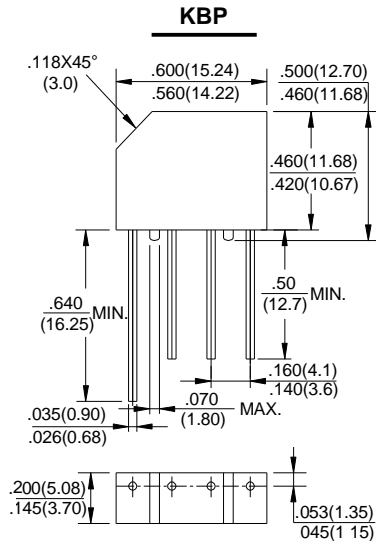


## BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 3.0Ampere



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Glass passivated chip
- ◆ High surge forward current capability

### MECHANICAL DATA

Case: Molded plastic body  
Lead: Solder plated  
Polarity: As marked

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60HZ.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	KBP 6005	KBP 601	KBP 602	KBP 604	KBP 606	KBP 608	KBP 610	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T <sub>A</sub> =50 °C	I(AV)	3.0							A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I <sub>FSM</sub>	80							A
Maximum Forward Voltage Drop Per Bridge Element at 3A Peak	V <sub>F</sub>	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ T <sub>J</sub> =100°C	I <sub>R</sub>	10.0							µA
Maximum Reverse Current at Rated DC Blocking Voltage Per Element @ T <sub>J</sub> =100°C	I <sub>R</sub>	1.0							mA
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES KBP6005 THRU KBP610

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

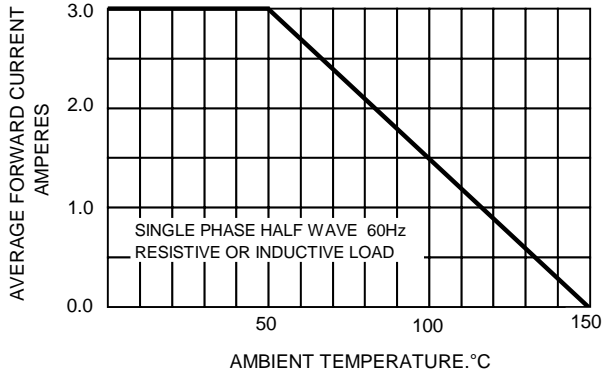


FIG.2-TYPICAL FORWARD CHARACTERISTICS

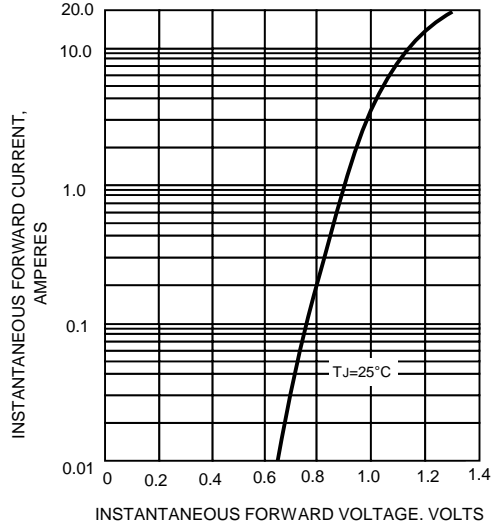


FIG.3-TYPICAL REVERSE CHARACTERISTICS

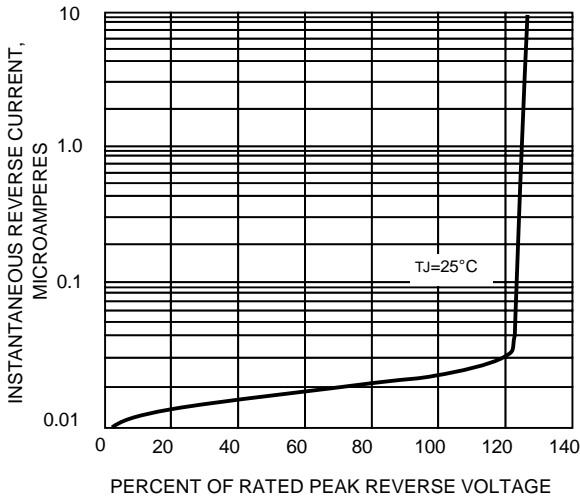


FIG.4-MAXIMUM FORWARD SURGE CURRENT

