

KBP08GA

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V

Current: 2.0A

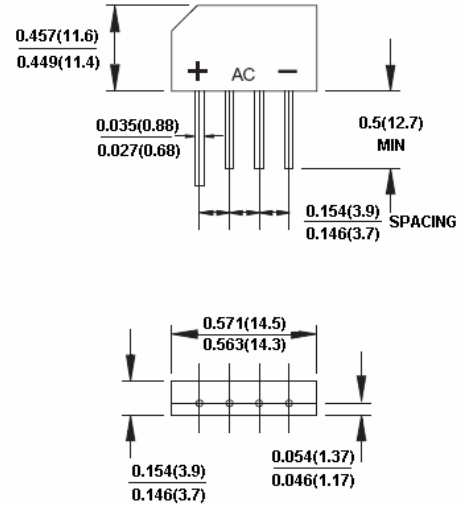
Features

Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit board

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

KBP



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	KBP08GA	units
Maximum repetitive peak reverse voltage	V _{rrm}	800	V
Maximum RMS voltage	V _{rms}	560	V
Maximum DC blocking voltage	V _{dc}	800	V
Maximum average forward rectified output current Ta = 55°C	I _{f(av)}	2.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	75	A
Maximum instantaneous forward voltage drop per leg at 2.0A	V _f	1.1	V
Rating for fusing (t < 8.3ms)	I ² t	24	A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	I _r	5.0 500	μA
Maximum thermal resistance per leg (Note1)	R _{th(ja)} R _{th(jc)}	30 11	°C/W
Typical junction capacitance per leg at 4.0V, 1MHz	C _j	25	pF
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150	°C

Note:

1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 047" (12 x 12mm) copper pads

RATINGS AND CHARACTERISTIC CURVES KBP08GA

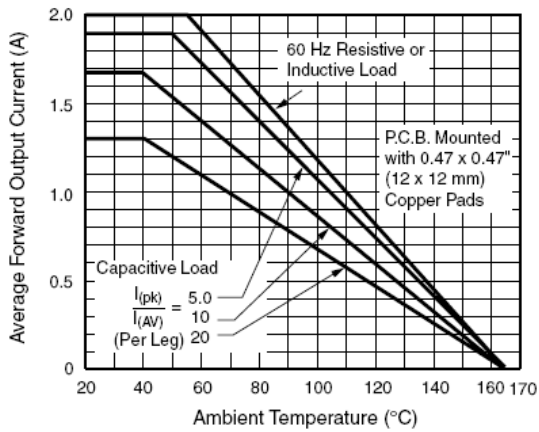


Figure 1. Derating Curve Output Rectified Current

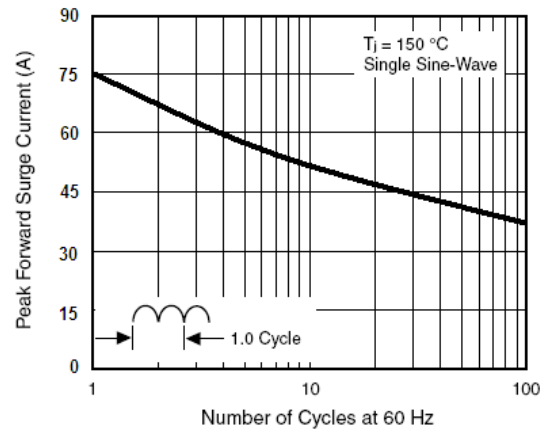


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

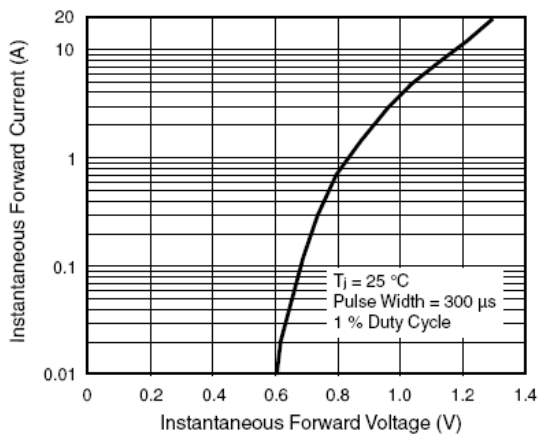


Figure 3. Typical Forward Characteristics Per Diode

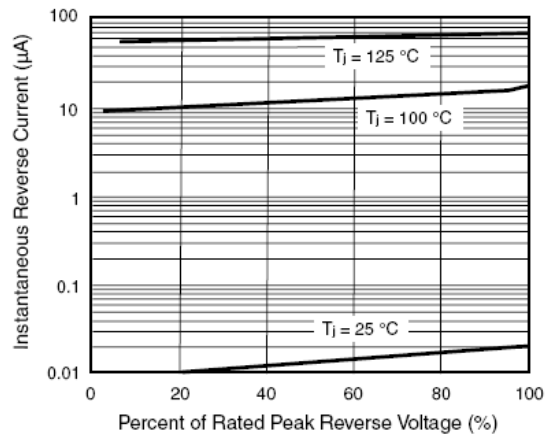


Figure 4. Typical Reverse Leakage Characteristics Per Diode

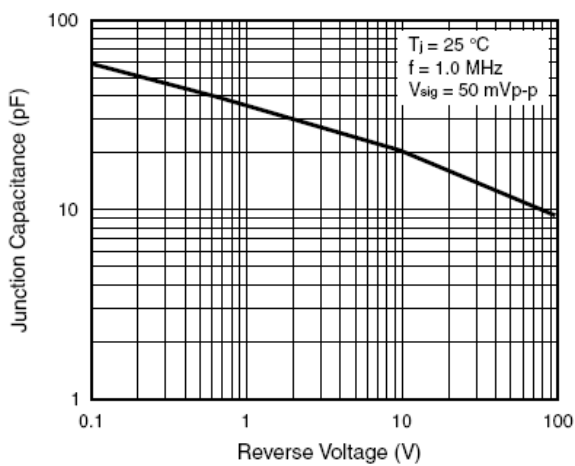


Figure 5. Typical Junction Capacitance Per Diode