

KBP08G-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V

Current: 1.5A



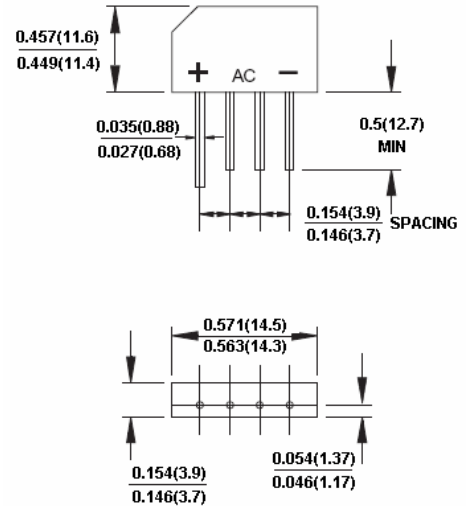
Features

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

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E,
Method 208C
Case: UL-94 Class V-0 recognized Halogen Free 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,
for capacitive load, derate current by 20%)

	Symbol	KBP08G-E	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 = 40°C	I _{f(av)}	1.5	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	50	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	10	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
Typical Thermal Resistance (Note 1)	R _{th(ja)}	25	°C/W
(Note 1)	R _{th(jl)}	8.0	
(Note 2)	R _{th(jc)}	10.0	
Typical junction capacitance per leg at 4.0V,1MHz	C _j	15	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 0.4" × 0.4" (10×10mm)copper pads
2. Thermal Resistance from Junction to Case Mounted on heatsink

RATINGS AND CHARACTERISTIC CURVES KBP08G-E

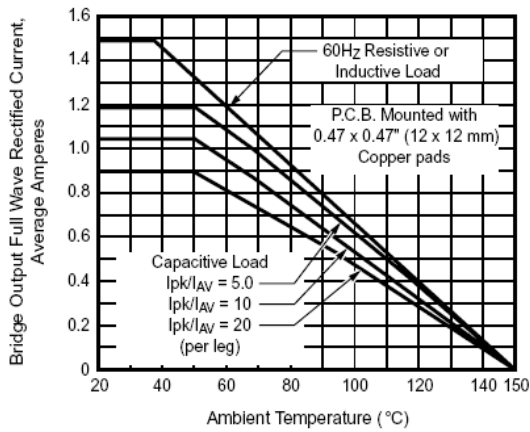


Figure 1. Derating Curve Output Rectified Current

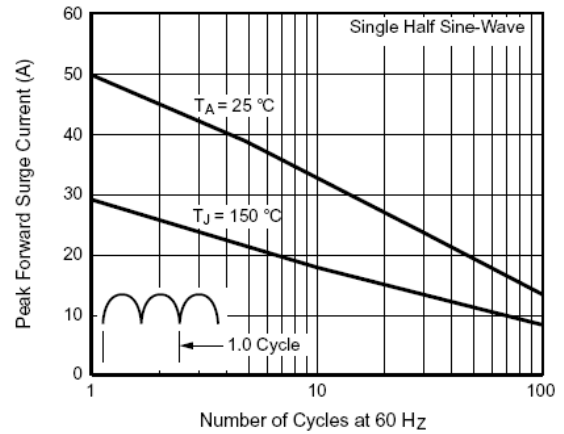


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

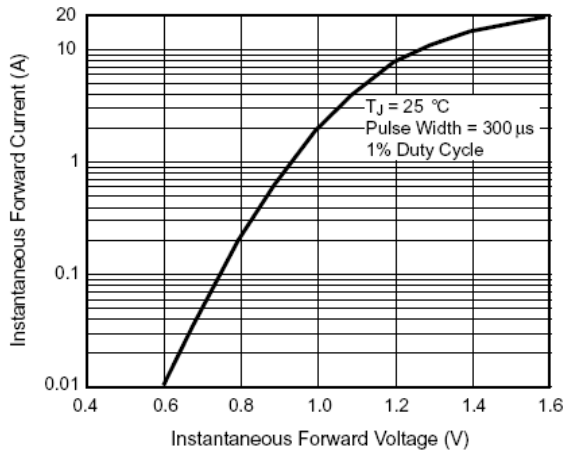


Figure 3. Typical Forward Characteristics Per Leg

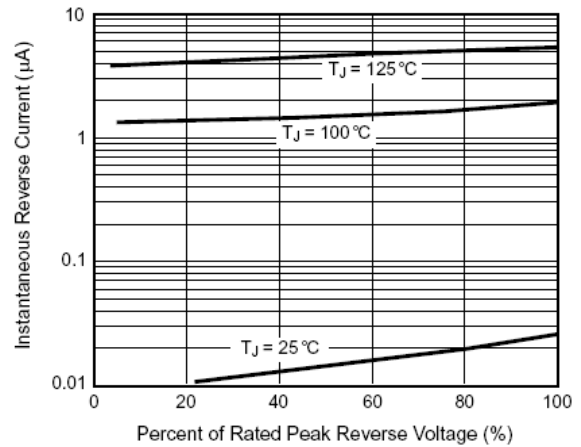


Figure 4. Typical Reverse Leakage Characteristics Per Leg

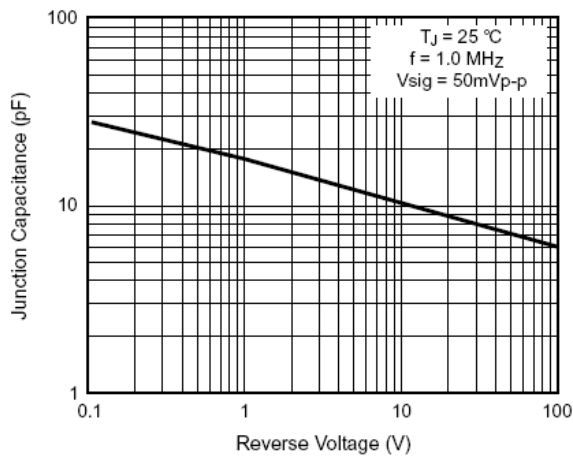


Figure 5. Typical Junction Capacitance Per Leg