2KBP08M-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V Current:2.0A

GULF SEMI

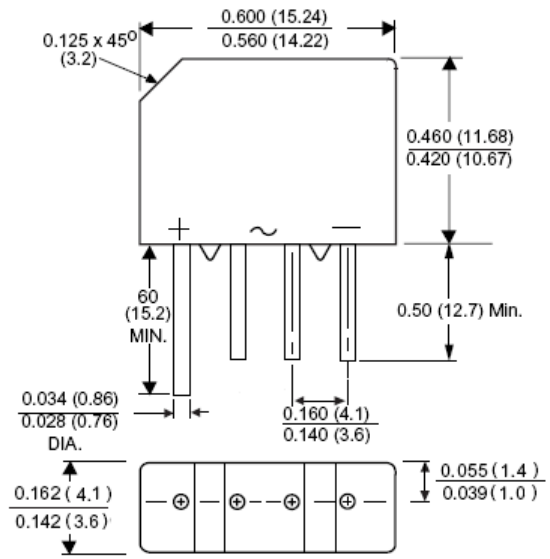
Features

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: As marked on body

KBPM



Dimensions in inches and (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	2KBP08M-E	units
Maximum repetitive peak reverse voltage	Vrrm	800	V
Maximum RMS voltage	Vrms	560	V
Maximum DC blocking voltage	Vdc	800	V
Maximum average forward rectified output current Ta =55℃	If(av)	2.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	60	A
Maximum instantaneous forward voltage drop per leg at 3.14A	Vf	1.1	V
Rating for fusing (t < 8.3ms)	I^2t	15	A^2Sec
Maximum DC reverse current at Ta = 25℃ rated DC blocking voltage per leg Ta = 125℃	Ir	5.0 500	μA
Maximum thermal resistance per leg (Note1)	Rth(ja) Rth(jc)	30 11	℃/W
Typical junction capacitance per leg at 4.0V,1MHz	Cj	25	pF
Operating junction and storage temperature range	Tj, Tstg	-55 to +150	℃

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 2KBP08M-E

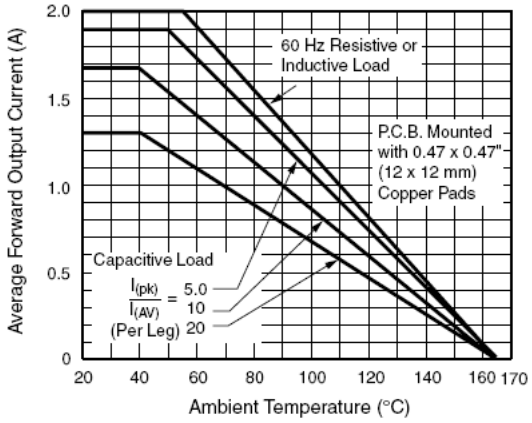


Figure 1. Derating Curve Output Rectified Current

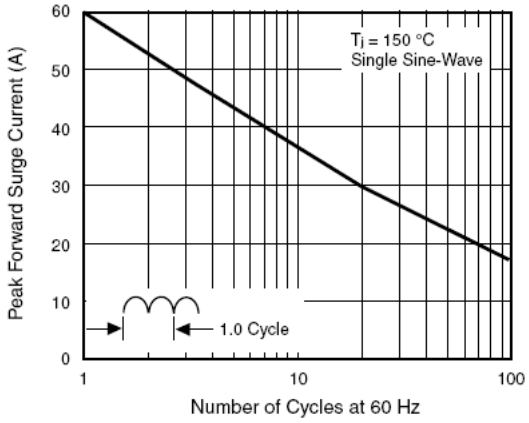


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

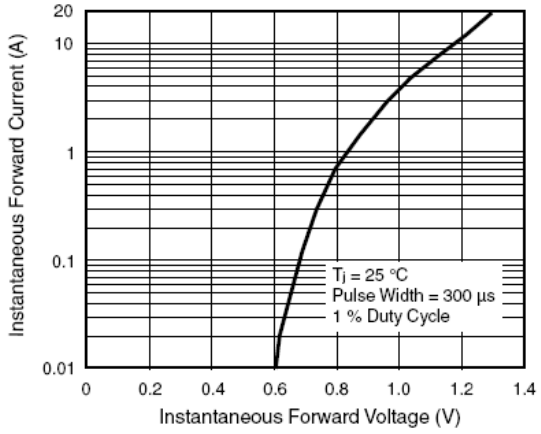


Figure 3. Typical Forward Characteristics Per Diode

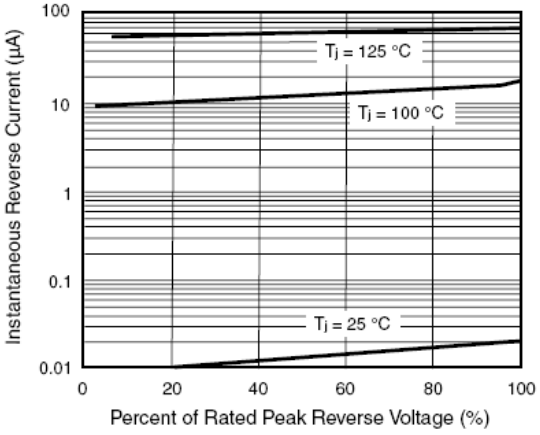


Figure 4. Typical Reverse Leakage Characteristics Per Diode

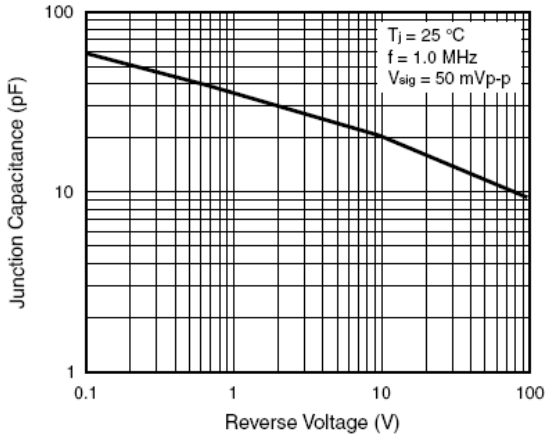


Figure 5. Typical Junction Capacitance Per Diode

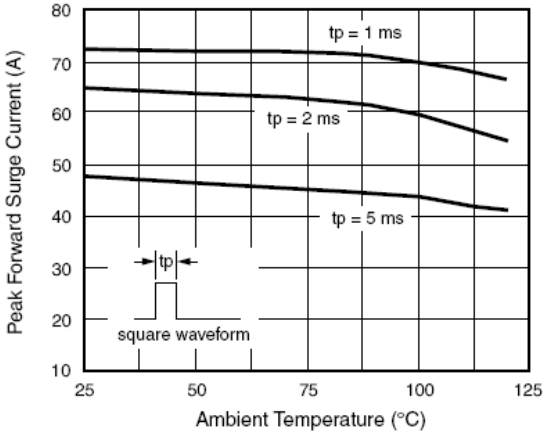


Figure 6. Non-Repetitive Peak Forward Surge Current Square Waveform