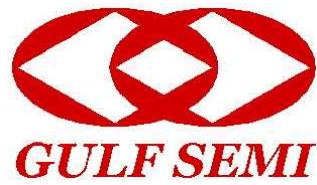


2KBP005M THRU 2KBP10M

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

Current: 2.0A

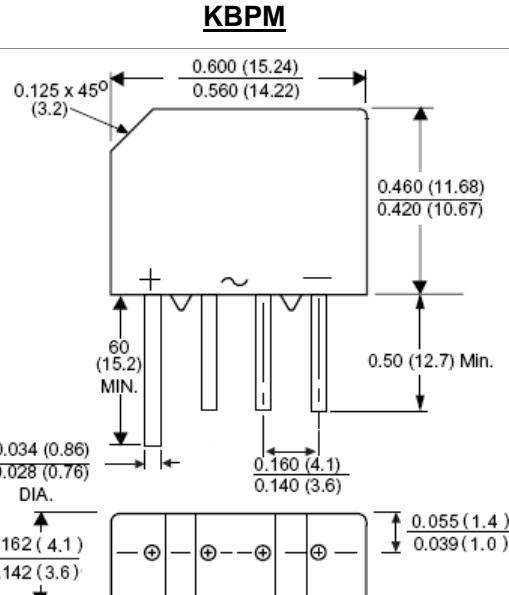


Features

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

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E,
Method 208C
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: As marked on body



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	2KBP 005M	2KBP 01M	2KBP 02M	2KBP 04M	2KBP 06M	2KBP 08M	2KBP 10M	units
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Ta = 55°C	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 ² t				15				A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	Ir				5.0				µA
500									
Maximum thermal resistance per leg (Note1)	Rth(ja) Rth(jc)				30				°C/W
					11				
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 2KBP005M THRU 2KBP10M

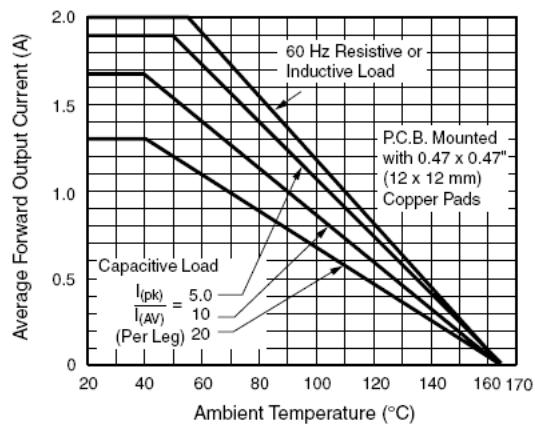


Figure 1. Derating Curve Output Rectified Current

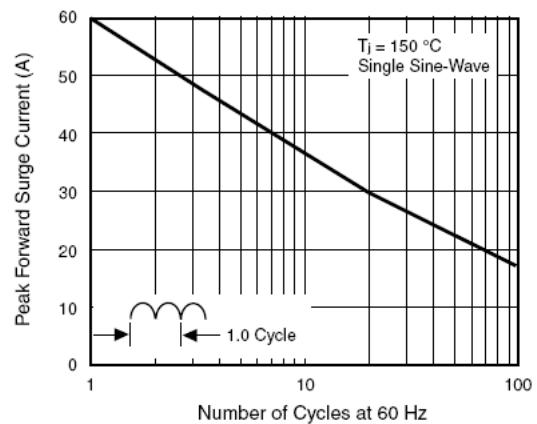


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

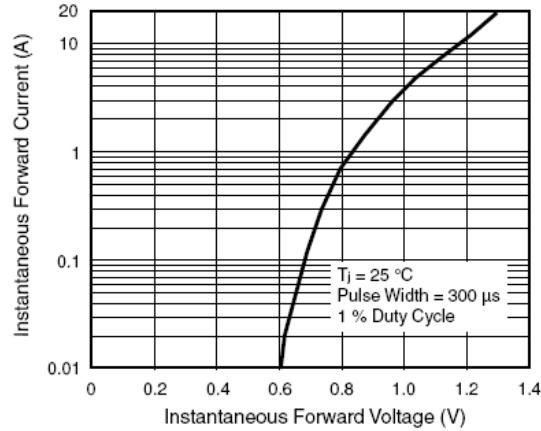


Figure 3. Typical Forward Characteristics Per Diode

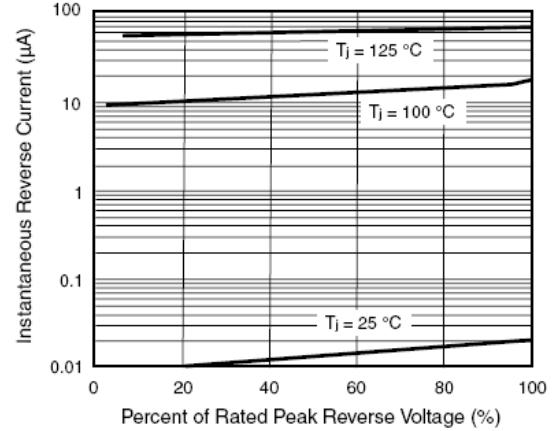


Figure 4. Typical Reverse Leakage Characteristics Per Diode

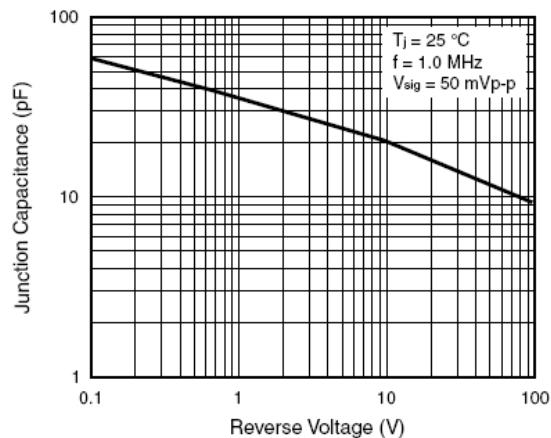


Figure 5. Typical Junction Capacitance Per Diode

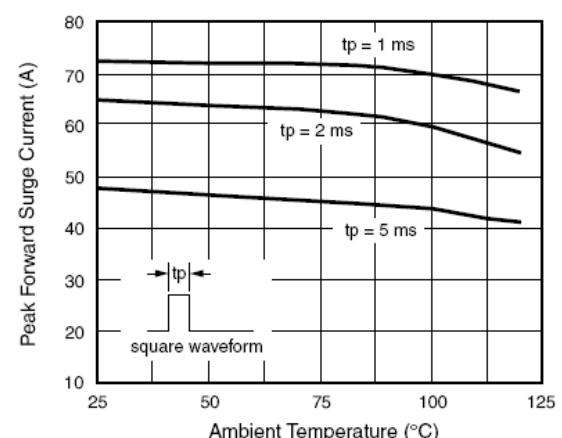


Figure 6. Non-Repetitive Peak Forward Surge Current Square Waveform