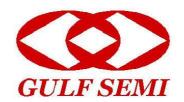
KBP005M THRU KBP10M

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V Current:1.5A



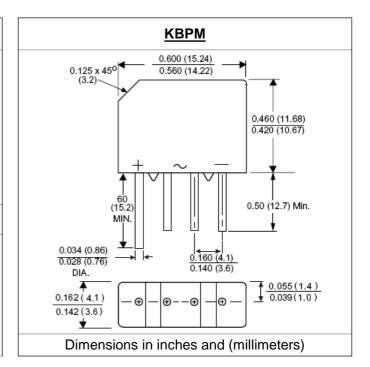
Features

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



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	KBP 005M	KBP 01M	KBP 02M	KBP 04M	KBP 06M	KBP 08M	KBP 10M	units
Vrrm	50	100	200	400	600	800	1000	V
Vrms	35	70	140	280	420	560	700	V
Vdc	50	100	200	400	600	800	1000	V
If(av)	1.5							Α
Ifsm	50							А
Vf	1.0 1.3							V
l ² t	10						A ² Sec	
Ir	5.0 500							μА
Rth(ja) Rth(jl)	40 13							°C/W
Cj	15					pF		
Tj, Tstg	-55 to +150						$^{\circ}$	
	Vrrm Vrms Vdc If(av) Ifsm Vf I²t Ir Rth(ja) Rth(jl) Cj	Symbol 005M	Symbol 005M 01M	Symbol 005M 01M 02M	Symbol 005M 01M 02M 04M Vrrm 50 100 200 400 Vrms 35 70 140 280 Vdc 50 100 200 400 If(av) 1.5 Ifsm 50 Vf 1.3 I²t 10 Ir 5.0 500 Rth(ja) 40 Rth(jl) 13 Cj 15	Symbol 005M 01M 02M 04M 06M Vrrm 50 100 200 400 600 Vrms 35 70 140 280 420 Vdc 50 100 200 400 600 If(av) 1.5 Ifsm 50 Vf 1.3 I²t 10 Ir 5.0 500 Rth(ja) 40 Rth(jl) 13 Cj 15	Symbol 005M 01M 02M 04M 06M 08M Vrrm 50 100 200 400 600 800 Vrms 35 70 140 280 420 560 Vdc 50 100 200 400 600 800 If(av) 1.5 Ifsm 50 Vf 1.3 I²t 10 Ir 5.0 500 Rth(ja) 40 Rth(ji) 13 Cj 15	Symbol 005M 01M 02M 04M 06M 08M 10M Vrrm 50 100 200 400 600 800 1000 Vrms 35 70 140 280 420 560 700 Vdc 50 100 200 400 600 800 1000 If(av) 1.5 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.4 1.5

Note:

1. Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47 $^{\prime\prime}$ \times 0.47 $^{\prime\prime}$ (12 \times 12mm)copper pads

* HEDEC registered values

Rev.A1 www.gulfsemi.com

RATINGS AND CHARACTERISTIC CURVES KBP005M THRU KBP10M

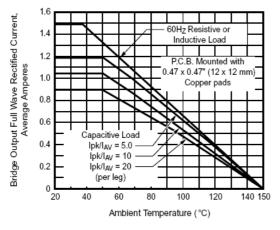


Figure 1. Derating Curve Output Rectified Current

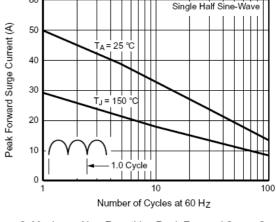


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current
Per Leg

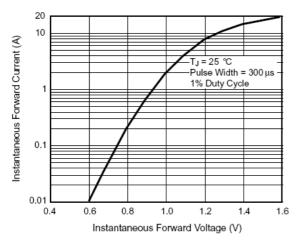


Figure 3. Typical Forward Characteristics Per Leg

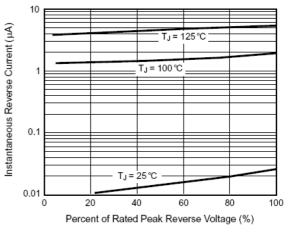


Figure 4. Typical Reverse Leakage Characteristics Per Leg

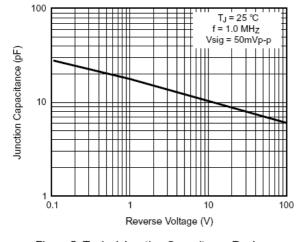


Figure 5. Typical Junction Capacitance Per Leg

Rev.A2 www.gulfsemi.com