KBP005G THRU KBP10G

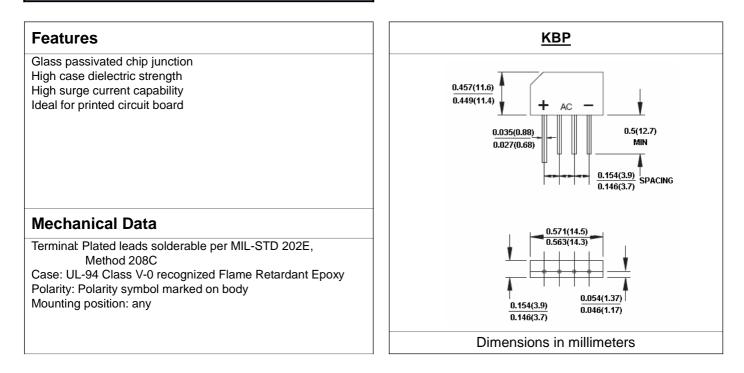
SINGLE PHASE GLASS

Voltage: 50 to 1000V

PASSIVATED BRIDGE RECTIFIER

Current:1.5A





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 005G	KBP 01G	KBP 02G	KBP 04G	KBP 06G	KBP 08G	KBP 10G	unit
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 $Ta = 40^{\circ}$	C If(av)	av) 1.5						A	
Peak forward surge current single sine-wa superimposed on rated load (JEDEC Method)	ve Ifsm	50							A
Maximum instantaneous forward voltage drop per leg 2.0A	at Vf	1.1						\	
Rating for fusing (t < 8.3ms)	l²t	10					A ² S		
Maximum DC reverse current at rated DC blocking voltage per legTa = 25° Ta = 125	-	5.0 500							μ.
Typical Thermal Resistance (Note 1) Rth(ja)	25							
(Note	1) Rth(jl)	8.0						°C/	
(Note	2) Rth(jc)	10.0							
Typical junction capacitance per leg at 4.0V,1MHz	Cj				15				р
Operating junction and storage temperature range	Tj, Tstg			-	55 to +15	50			°C

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 1. 2. Thermal Resistance from Junction to Case Mounted on heatsink

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RATINGS AND CHARACTERISTIC CURVES KBP005G THRU KBP10G

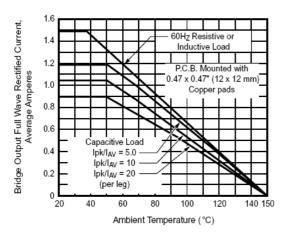


Figure 1. Derating Curve Output Rectified Current

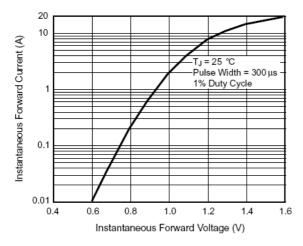


Figure 3. Typical Forward Characteristics Per Leg

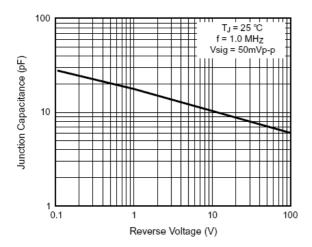


Figure 5. Typical Junction Capacitance Per Leg

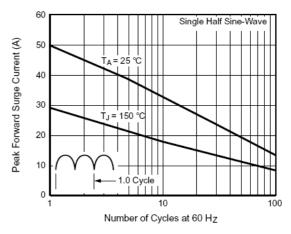


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

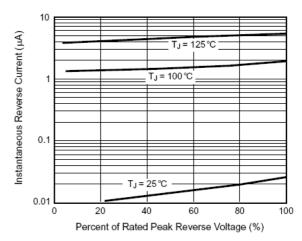


Figure 4. Typical Reverse Leakage Characteristics Per Leg