

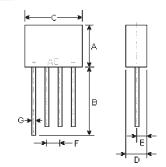
KBP005 THRU KBP10

SINGLE-PHASE SILICON BRIDGE Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

Features

- Surge overload rating 50 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Mounting Position: Any
- Lead: Silver plated copper lead

RS-2



DIMENSIONS											
DIM	inches		m	Note							
	M in .	Max.	Min.	Max.	Note						
Α	-	0.504	-	12.8							
В	0.75	-	19.0	-							
С	-	0.693	-	17.6							
D	-	0.25	-	6.4							
E	-	0.125	-	3.2							
F	-	0.15	-	3.8							
G	0.32 Typ.		0.8	ф							

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For capacitive load, derate current by 20%.

	Symbols	KBP005	KBP01	KBP02	KBP04	КВР06	КВР08	KBP10	Units
Maximum repetitive peak reverse voltage	$V_{_{\mathrm{RRM}}}$	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at $\rm T_A = 50^{\circ}C$	I _(AV)	2.0							Amps
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load	I _{FSM}	50.0						Amps	
Maximum forward Voltage drop per bridge element at 1.0A peak	V _F	1.0							Volt
Maximum DC reverse current at rated DC blocking voltage per element	I _R	10.0							μА
Maximum DC reverse current at rated DC blocking voltage per element $T_A=100^{\circ}C$	I _R	1.0							mA
Operating temperature range	T _J	-55 to +125							$^{\circ}$
Storage temperature range	T _{STG}	-55 to +150							$^{\circ}$

RATINGS AND CHARACTERISTIC CURVES

Fig. 1—DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

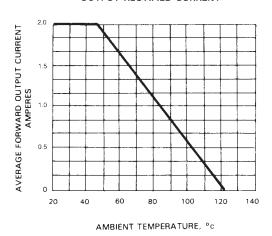


Fig. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

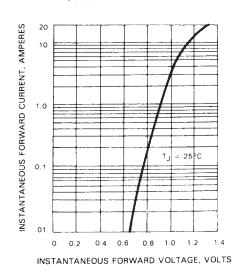


Fig. 3 — TYPICAL FORWARD CHARACTERISTICS

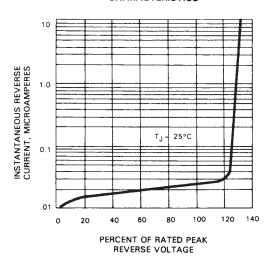


Fig. 4 - MAXIMUM FORWARD SURGE CURRENT

