

KBP005G Thru KBP10G



1.5 AMP GLASS PASSIVATED SILICON BRIDGE RECTIFIER

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 40 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Mechanical Data

- Case: Molded plastic
- Leads: Tin plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.05 ounce, 1.52 grams

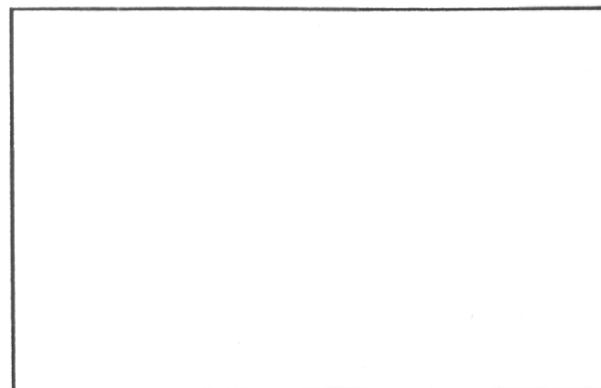
Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		KBP 005G	KBP 01G	KBP 02G	KBP 04G	KBP 06G	KBP 08G	KBP 10G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_A = 75^\circ\text{C}$	$I_{(AV)}$	1.5							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	40							A
Maximum DC Forward Voltage Drop per Element At 1.0A DC	V_F	1.1							V
Maximum DC Reverse Current At Rated DC Blocking Voltage per Element @ $T_A = 125^\circ\text{C}$	I_R	5 500							μA
$I^2 t$ Rating for Fusing ($t < 8.3\text{ms}$)	$I^2 t$	6.6							A^2S
Typical Junction Capacitance Per Element *	C_J	20							pF
Typical Thermal Resistance **	$R_{(THJ-C)}$	18							$^\circ\text{C/W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

Notes: * Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC

** Thermal resistance junction to case



Outline Drawing

