

# 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

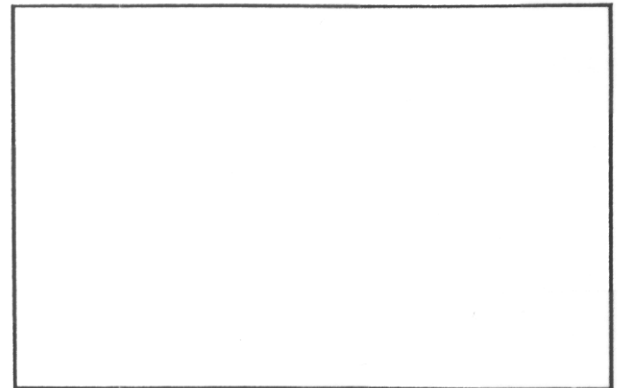
### Maximum Ratings & Characteristics

- 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 @ $T_A = 75^\circ C$	$I_{(AV)}$	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 @ $T_A = 125^\circ C$	$I_R$	5							$\mu A$
$I^2 t$ Rating for Fusing ( $t < 8.3ms$ )	$I^2 t$	6.6							$A^2 S$
Typical Junction Capacitance Per Element *	$C_J$	20							pF
Typical Thermal Resistance **	$R_{(THJ-C)}$	18							$^\circ C/W$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ C$

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

\*\* Thermal resistance junction to case



### Outline Drawing

