

KBP005G Thru KBP10G



1.5 AMP GLASS PASSIVATED SILICON BRIDGE RECTIFIER

■ FEATURES

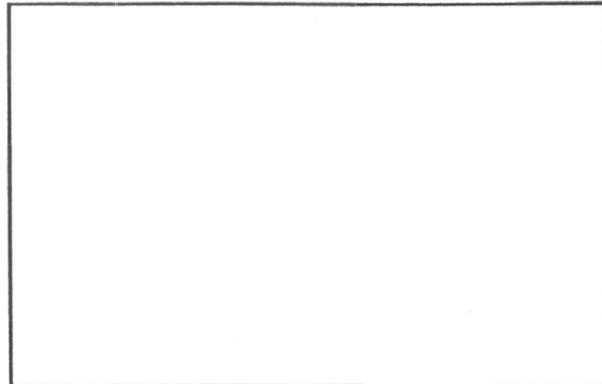
- Rating to 1000V PRV
- Surge overload rating to 40 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

■ Mechanical Data

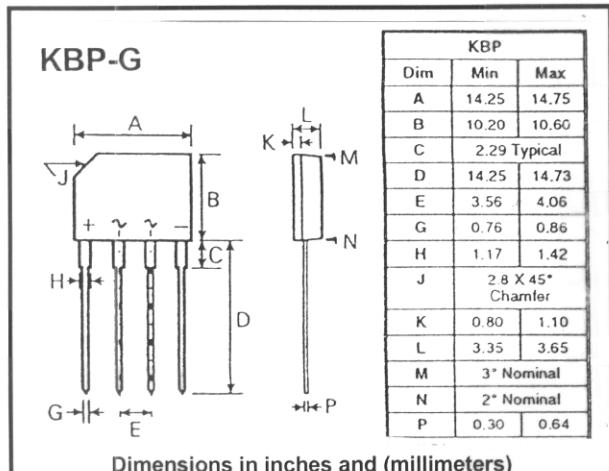
- Case: Molded plastic
- Leads: Tin plated copper
- Leads solderable per MIL-STD-202, Method 208
- Weight: 0.05 ounce, 1.52 grams

■ 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%



■ Outline Drawing



		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°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@ T _A = 25°C DC Blocking Voltage per Element @ T _A = 125°C	I _R				5				μA
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 _(TH J-C)				18				°C/W
Operating Temperature Range	T _J				-55 to +150				°C
Storage Temperature Range	T _{STG}				-55 to +150				°C

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

** Thermal resistance junction to case