

2KBP005G Thru 2KBP10G



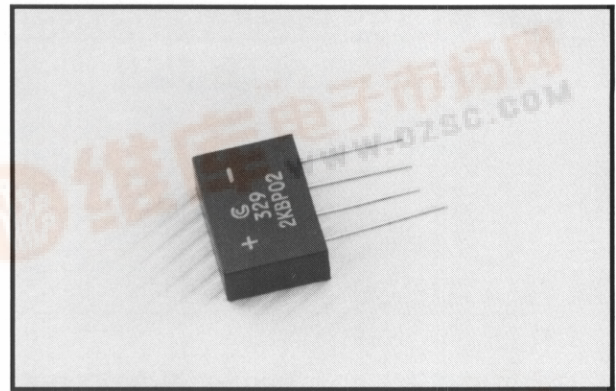
2 AMP GLASS PASSIVATED SILICON BRIDGE RECTIFIER

FEATURES

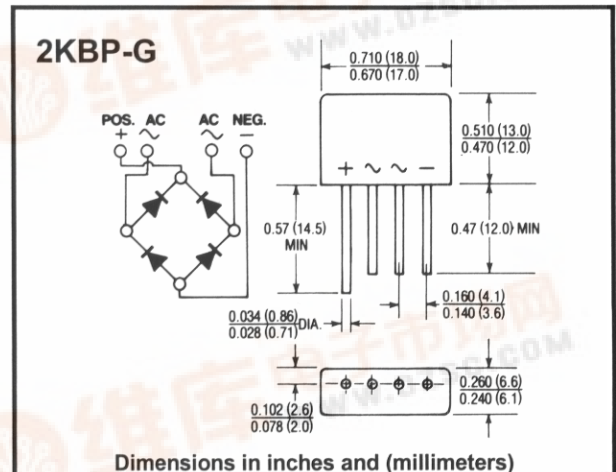
- Rating to 1000V PRV
- Surge overload rating to 65 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL recognized: File #E106441
- UL recognized 94V-O plastic material

Mechanical Data

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



Outline Drawing



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%

		2KBP 005G	2KBP 01G	2KBP 02G	2KBP 04G	2KBP 06G	2KBP 08G	2KBP 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 @ $T_A = 65^\circ C$	I_{AV}				2.0				A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}				65				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				μA
$I^2 t$ Rating for Fusing ($t < 8.3ms$)	$I^2 t$				17.5				$A^2 S$
Typical Junction Capacitance Per Element *	C_J				25				pF
Typical Thermal Resistance **	$R_{(TH J-C)}$				14				$^\circ C/W$
Operating Temperature Range	T_J				-55 to +150				$^\circ C$
Storage Temperature Range	T_{STG}				-55 to +150				$^\circ C$

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

