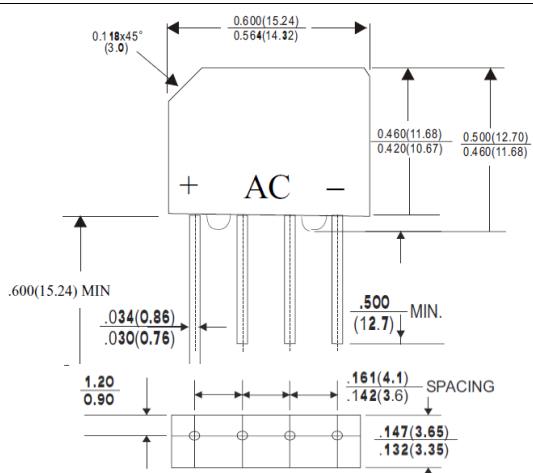


GLASS PASSIVATED BRIDGE RECTIFIERS	REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2 Amperes								
<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Rating to 1000V PRV</li> <li>• Ideal for printed circuit board</li> <li>• Plastic material has underwriters laboratory flammability classification 94V-0</li> </ul> <p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• Case: KBP</li> <li>• Polarity: As marked on Body</li> <li>• Mounting position: Any</li> <li>• Weight : 0.06 ounces, 1.7 grams</li> </ul>	 <p style="text-align: center;">Dimensions in inches and (millimeters)</p>								
<p><b>MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS</b>  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%</p>									
Characteristics	Symbol	KBP 2005G	KBP 201G	KBP 202G	KBP 204G	KBP 206G	KBP 208G	KBP 210G	Unit
Maximum Repetitive 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	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_A=50^\circ\text{C}$	$I_{(AV)}$	2							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Super Imposed on Rated Load (JEDEC)	$I_{FSM}$	60							A
Maximum Forward Voltage Drop Per Bridge Element at 3.14A DC	$V_F$	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	5 500							$\mu\text{A}$
$I^2t$ Rating for Fusing (1ms $\leq t \leq$ 8.3ms)	$I^2t$	15							$\text{A}^2\text{s}$
Typical Junction Capacitance per leg (Note 1)	$C_J$	25							pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	30 11							$^\circ\text{C/W}$
Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150							$^\circ\text{C}$
<p>Note:</p> <ol style="list-style-type: none"> <li>1. Measured at 1MHz and applied reverse voltage of 4V</li> <li>2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.47x0.47" (12x12mm) copper pads.</li> </ol>									

**Rating and Characteristic Curves**

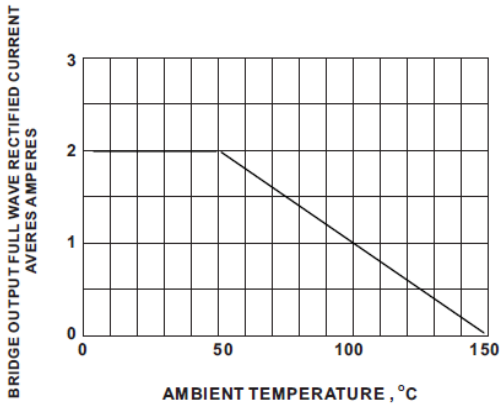


Fig.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

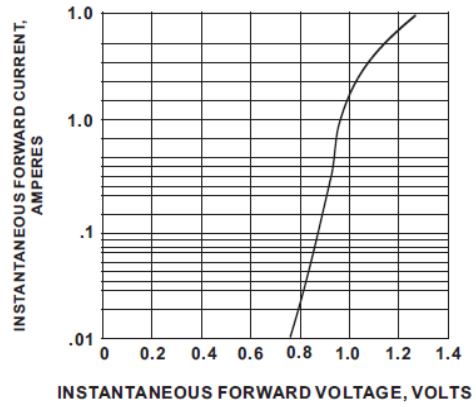


Fig.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

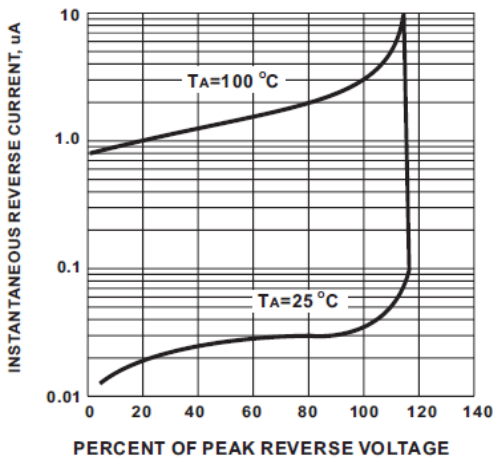


Fig.3 TYPICAL PEAK REVERSE CHARACTERISTICS

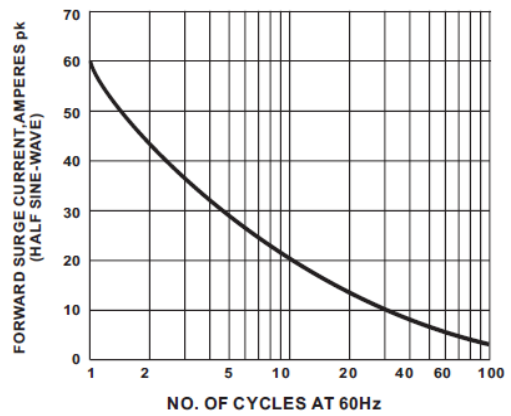


Fig.4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT