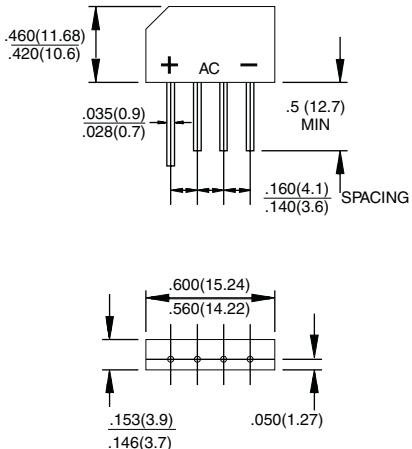


## 1.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBP	Voltage 400 V to 1000 V	Current 1.0 A	
	 <p>Dimensions in mm:</p> <ul style="list-style-type: none"> <li>Top View: Total height = .460(11.68), Case height = .420(10.6), Lead thickness = .035(0.9), Lead height = .028(0.7), Lead spacing = .160(4.1), Lead height = .140(3.6), Spacing = .5 (12.7) MIN.</li> <li>Bottom View: Total width = .600(15.24), Case width = .560(14.22), Lead thickness = .050(1.27), Lead height = .153(3.9), Lead height = .146(3.7).</li> </ul>	<ul style="list-style-type: none"> <li>• Glass passivated chip junction</li> <li>• Ideal for printed circuit board</li> <li>• Reliable low cost construction</li> <li>• High temperature soldering guaranteed: 260 °C / 10 seconds at 5 lbs., (2.3 kg) tension.</li> </ul>		
		<b>MECHANICAL DATA</b> <ul style="list-style-type: none"> <li>• Case: Molded plastic body.</li> <li>• Mounting position: Any</li> <li>• Leads solderable per MIL-STD-202, Method 208.</li> </ul>		

### Maximum Ratings and Electrical Characteristics at 25 °C

		KBP 104G	KBP 105G	KBP 106G	KBP 107G
$V_{RRM}$	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
$V_{RMS}$	Maximum RMS Voltage (V)	280	420	560	700
$V_{DC}$	Maximum DC Blocking Voltage (V)	400	600	800	1000
$I_{F(AV)}$	Maximum Average Forward Rectified Current @ $T_A = 50$ °C			1.0 A	
$I_{FSM}$	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)			30 A	
$T_j$	Operating Temperature Range			-55 to +150 °C	
$T_{stg}$	Storage Temperature Range			-55 to +150 °C	

### Electrical Characteristics at Tamb = 25 °C

$V_F$	Maximum Instantaneous Forward Voltage @ = 1.0 A	1.0 V
$I_R$	Maximum DC Reverse Current @ $T_A = 25$ °C at Rated DC Blocking Voltage @ $T_A = 125$ °C	10.0 µA 500 µA
$R_{th(j-a)}$ $R_{th(j-l)}$	Typical Thermal Resistance (Note)	28°C/W 10°C/W

Notes: Thermal Resistance from Junction to Ambient and from Junction to lead Mounted on P.C.B.  
With 0.2" x 0.2" (5mm x 5 mm) Copper Pads.

## Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

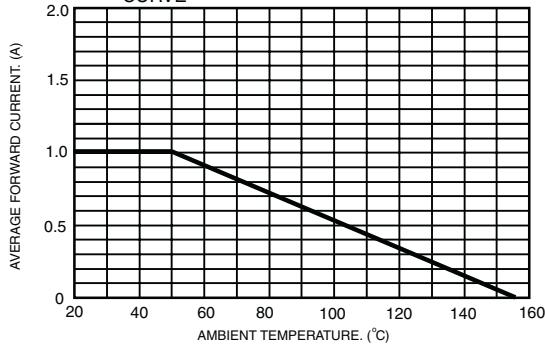


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

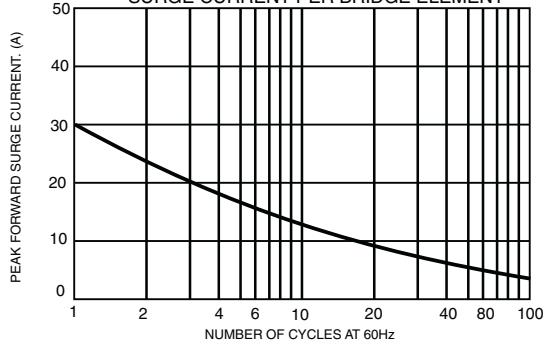


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

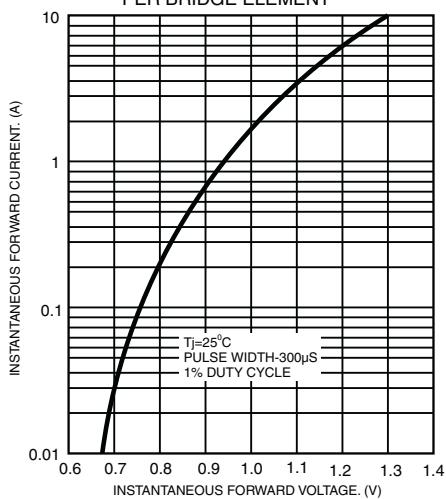


FIG.2- TYPICAL REVERSE CHARACTERISTICS

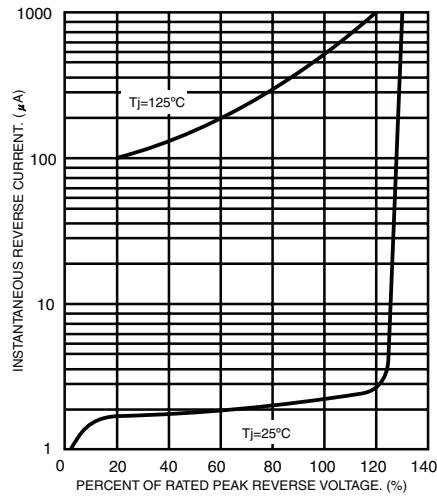


FIG.4- TYPICAL JUNCTION CAPACITANCE

