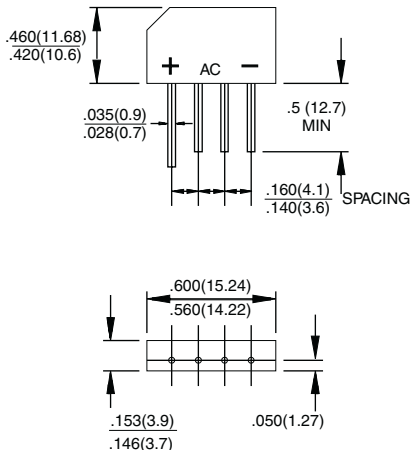


## 1.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBP	Voltage 400 V to 1000 V	Current 1.0 A
 <p>Top View Dimensions:          Overall width: .460 (11.68) / .420 (10.6)          Lead spacing: .035 (0.9) / .028 (0.7)          Lead width: .160 (4.1) / .140 (3.6)          Mounting hole diameter: .5 (12.7) MIN          Mounting hole spacing: .600 (15.24) / .560 (14.22)          Mounting hole diameter: .153 (3.9) / .146 (3.7)          Mounting hole spacing: .050 (1.27)</p> <p>Side View Dimensions:          Lead height: .160 (4.1) / .140 (3.6)          Mounting hole diameter: .5 (12.7) MIN          Mounting hole spacing: .600 (15.24) / .560 (14.22)          Mounting hole diameter: .153 (3.9) / .146 (3.7)          Mounting hole spacing: .050 (1.27)</p>		<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 @ $T_A = 50\text{ °C}$	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 $T_{amb} = 25\text{ °C}$

$V_F$	Maximum Instantaneous Forward Voltage @ = 1.0 A	1.0 V
$I_R$	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	10.0 $\mu$ A 500 $\mu$ A
$R_{th(j-a)}$ $R_{th(j-l)}$	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

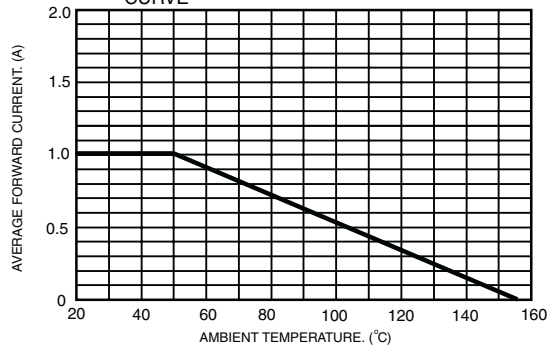


FIG.2- TYPICAL REVERSE CHARACTERISTICS

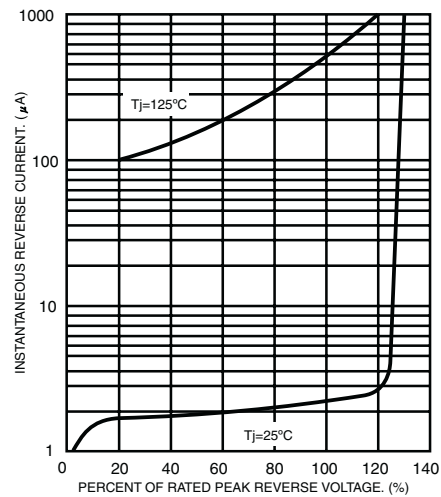


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

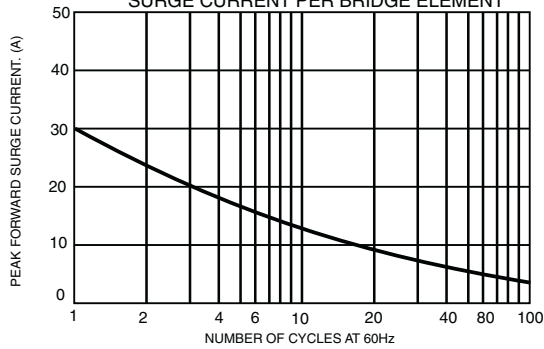


FIG.4- TYPICAL JUNCTION CAPACITANCE

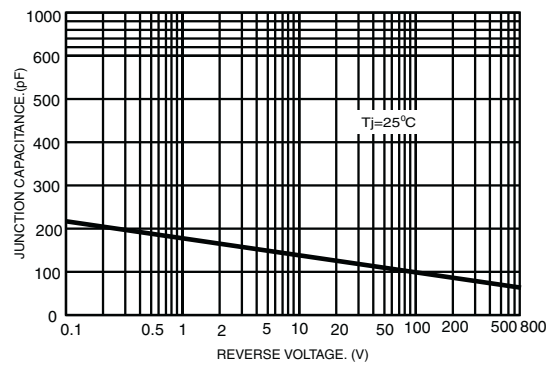


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

