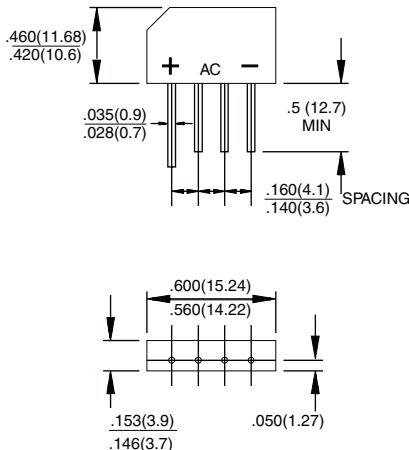


### 3.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBP	Voltage 400 V to 1000 V	Current 3.0 A
 <p>Top View Dimensions:            .460(11.68) / .420(10.6)            .035(0.9) / .028(0.7)            .5 (12.7) MIN            .160(4.1) / .140(3.6) SPACING            .600(15.24) / .560(14.22)            .153(3.9) / .146(3.7)            .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 304G	KBP 305G	KBP 306G	KBP 307G
$V_{RRM}$	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 @ $T_A = 50\text{ °C}$	3.0 A			
$I_{FSM}$	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	80 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 @ = 3.0 A	1.1 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)	30°C/W 11°C/W

Notes: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.4" x 0.4" (10mm x 10 mm) Copper Pads.

### Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

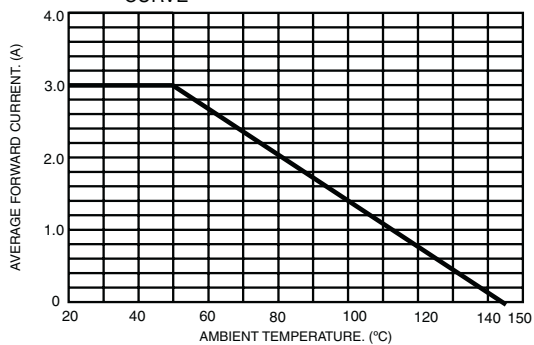


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

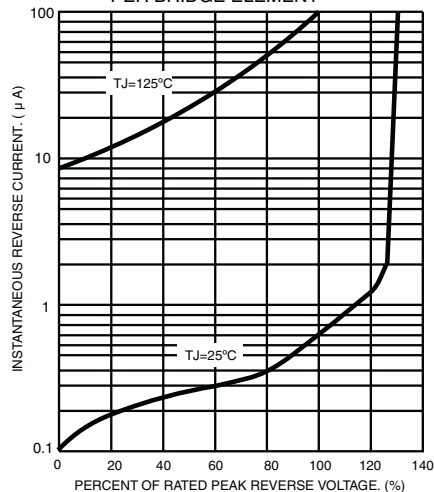


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

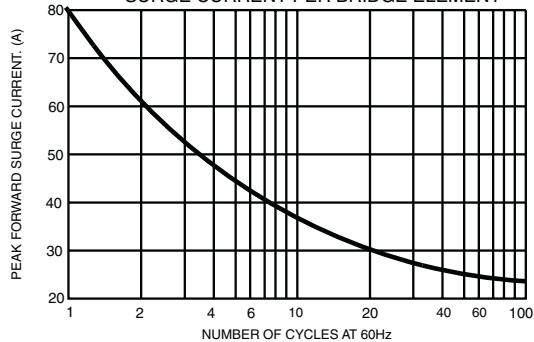


FIG.4- TYPICAL JUNCTION CAPACITANCE

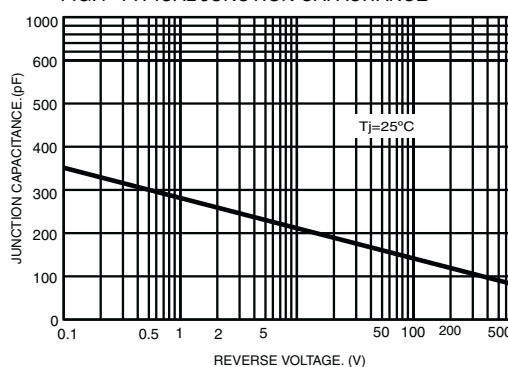


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

