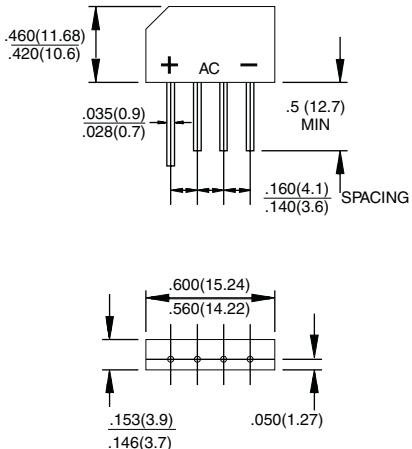


3.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBP	Voltage 400 V to 1000 V	Current 3.0 A	
	 <p>Dimensions in mm:</p> <ul style="list-style-type: none"> Top View: Total height = .460(11.68), Case thickness = .420(10.6), Lead height = .035(0.9), Lead width = .028(0.7), Lead spacing = .160(4.1), Lead thickness = .140(3.6), Lead leadout = .5 (12.7) MIN. Bottom View: Total width = .600(15.24), Grid width = .560(14.22), Grid height = .153(3.9), Grid thickness = .146(3.7), Lead spacing = .050(1.27). 	<ul style="list-style-type: none"> • Glass passivated chip junction • Ideal for printed circuit board • Reliable low cost construction • High temperature soldering guaranteed: 260 °C / 10 seconds at 5 lbs., (2.3 kg) tension. 		
MECHANICAL DATA <ul style="list-style-type: none"> • Case: Molded plastic body. • Mounting position: Any • Leads solderable per MIL-STD-202, Method 208. 				

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 @ $T_A = 50$ °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 @ $T_A = 25$ °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)	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

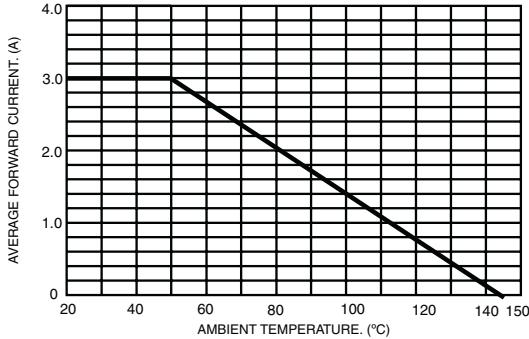


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

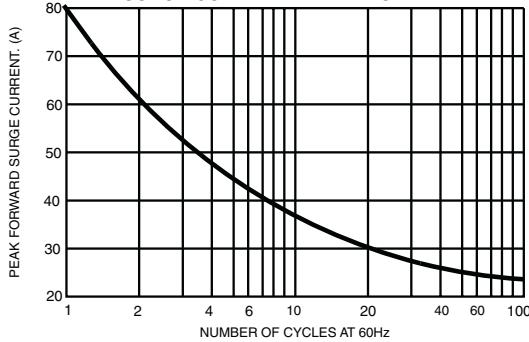


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

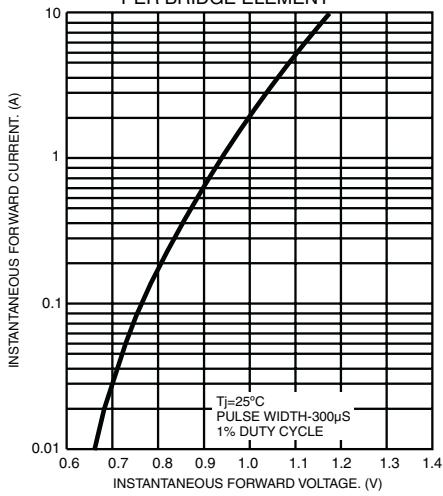


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

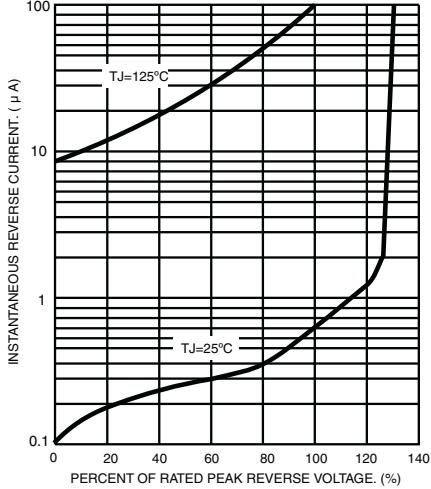


FIG.4- TYPICAL JUNCTION CAPACITANCE

