

2.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBP	Voltage 400 V to 1000 V	Current 2.0 A
		<ul style="list-style-type: none"> Glass passivated chip junction Ideal for printed circuit board Reliable low cost construction technique results in inexpensive product High temperature soldering guaranteed: 260 °C / 10 seconds / 9.5mm, lead lengths. High surge current capability 	
		<p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case: Molded plastic body. Mounting position: Any Small size, simple installation Leads solderable per MIL-STD-202, Method 208 	

Maximum Ratings and Electrical Characteristics at 25 °C

		KBP 204G	KBP 205G	KBP 206G	KBP 207G
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 @ $T_c = 50\text{ °C}$	2.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	60 A			
I^2t	Rating for fusing ($t < 8.3\text{ ms}$)	15 A ² sec			
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 @ = 3.14 A	1.2 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	10.0 μ A 500 μ A
$R_{th(j-a)}$	Typical Thermal Resistance Per Leg (Note)	25 °C/W
$R_{th(j-l)}$		8.0 °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" (10 x 10mm) Copper Pads.

Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

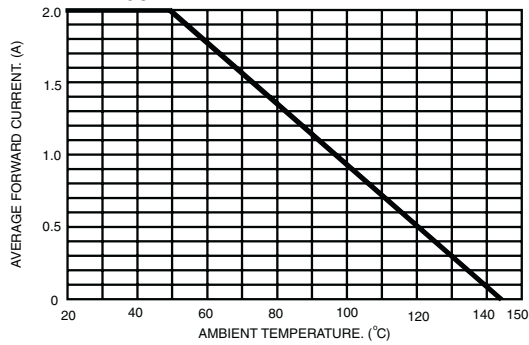


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

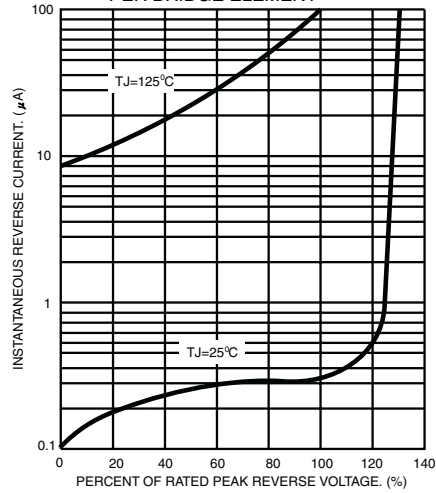


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

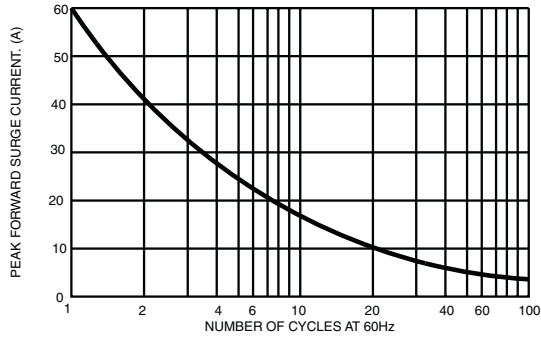


FIG.4- TYPICAL JUNCTION CAPACITANCE

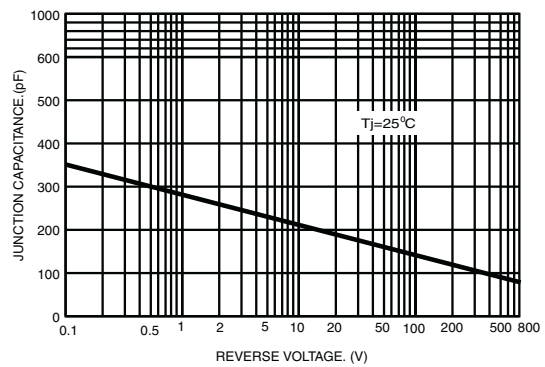


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

