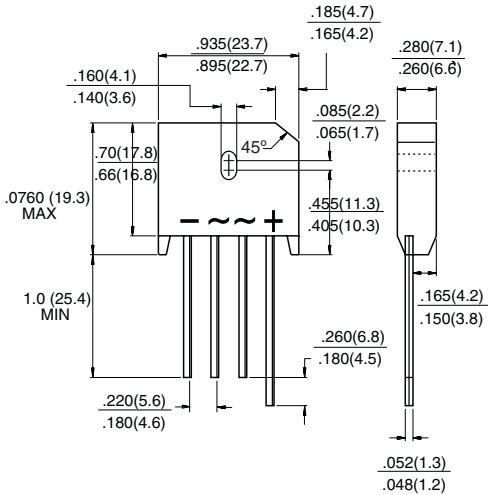


4.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBU	Voltage 400 V to 1000 V	Current 4.0 A
		• Glass passivated chip junction • Ideal for printed circuit board • Reliable low cost construction • High temperature soldering guaranteed: 260 °C / 10 seconds / 9.5mm, lead lengths. • Surge overload rating to 150 amperes peak	
		MECHANICAL DATA • Case: Molded plastic body. • Mounting position: Any • Mounting torque: 5 in. lbs. Max. • Plastic material has Underwriters Laboratory Flammability Classification 94V-0	

Maximum Ratings and Electrical Characteristics at 25 °C

		KBU 404G	KBU 405G	KBU 406G	KBU 407G
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 @ $T_A = 50\text{ °C}$	4.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	150 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 @ = 2.0 A @ = 4.0 A	1.0 V 1.1 V
I_R	Maximum DC Reverse Current @ $T_A = 25\text{ °C}$ at Rated DC Blocking Voltage @ $T_A = 125\text{ °C}$	5.0 μ A 500 μ A
$R_{th(j-a)}$ $R_{th(j-l)}$	Typical Thermal Resistance (Note1) (Note 2)	19 °C/W 4.0 °C/W

Notes: 1. Units Mounted on P.C.B. with 0.5" x 0.5" (12mm x 12mm) Copper Pads and 0.375" 9.5mm) Lead Length.
2. Units Mounted on 2.0" x 3.0" x 0.25" Al. Plate.

Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

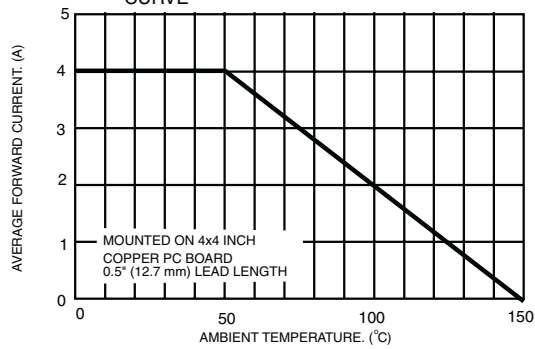


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

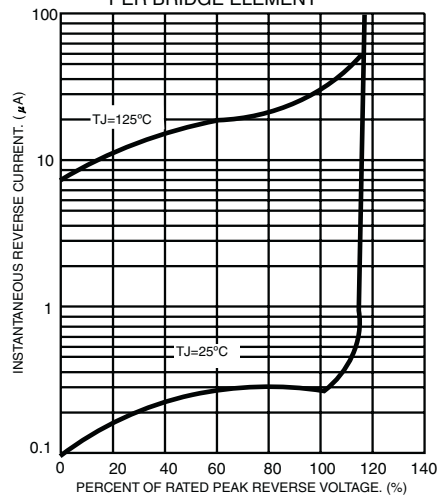


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

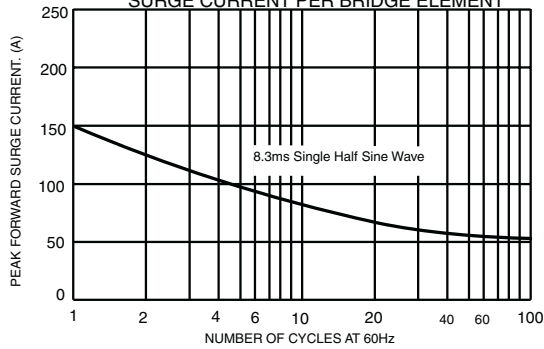


FIG.4- TYPICAL JUNCTION CAPACITANCE

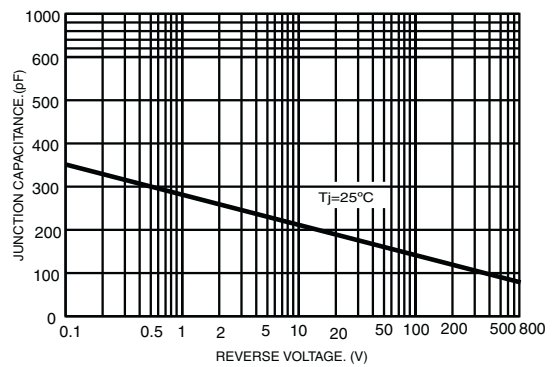


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

