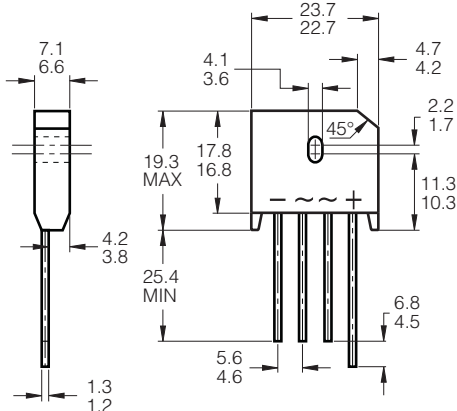


10.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.	KBU	Voltage 400 V to 1000 V	Current 10.0 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 200 amperes peak • High case dielectric strength	
		MECHANICAL DATA • Case: Molded plastic body. • Mounting position: Any • Mounting torque: 5 in. lb. Max. • Plastic material has Underwriters Laboratory Flammability Classification 94V-0	

Maximum Ratings and Electrical Characteristics at 25 °C

		KBU 1004G	KBU 1005G	KBU 1006G	KBU 1007G
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 @ $T_A = 45\text{ °C}$	10.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	170 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 @ = 5.0 A @ = 10.0 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
$R_{th(j-c)}$	Typical Thermal Resistance (Note)	2.2 °C/W

Note: Thermal Resistance from Junction to Case with Device Mounted on 4" x 6" x 0.25" Heatsink.

Rating And Characteristic Curves

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

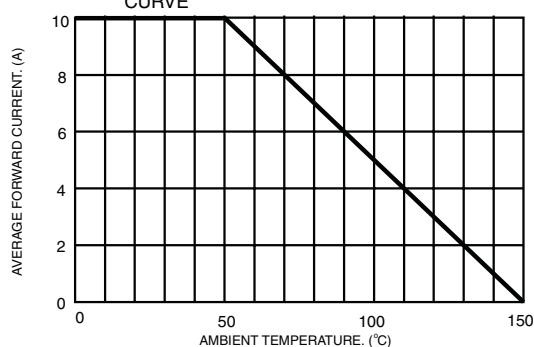


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

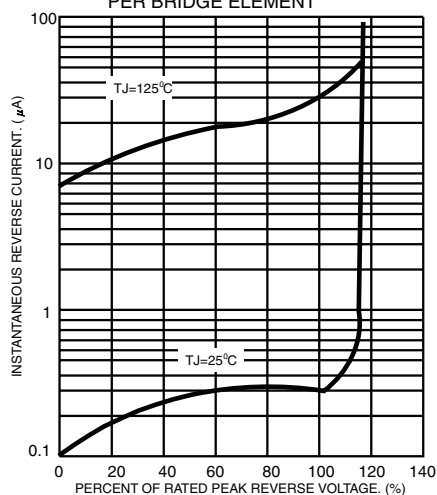


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

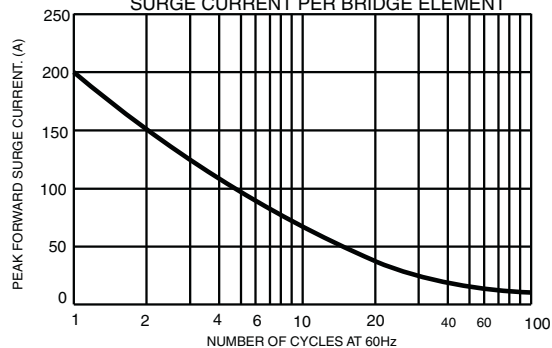


FIG.4- TYPICAL JUNCTION CAPACITANCE

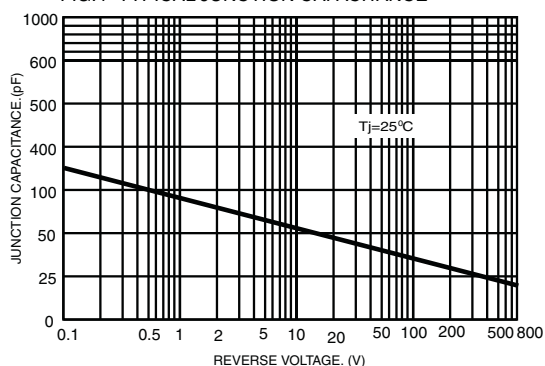


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

