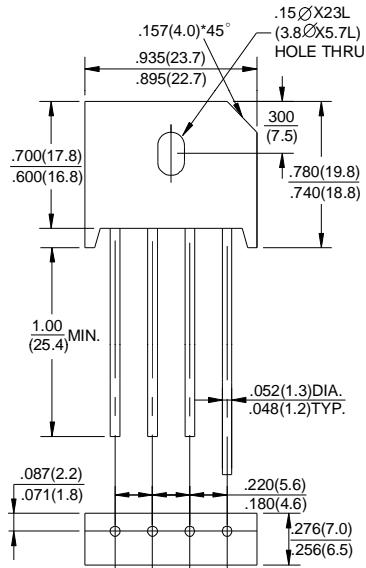




KBU4005G thru KBU410G

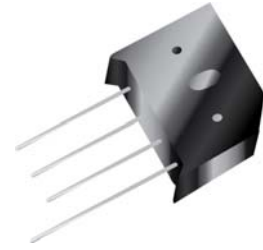


GLASS PASSIVATED BRIDGE RECTIFIERS



KBU

Dimensions in inches and (millimeters)



Features

- Surge overload rating -125 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Mounting position:Any
- Plastic material has UL
- Mounting position:Any
- Mounting torque:5 In.lb.Max

PRIMARY CHARACTERISTICS

I_F	4A
V_{RRM}	50~1000V
I_{FSM}	125A
V_F	1.1V
T_J max	150°C

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	KBU 4005G	KBU 401G	KBU 402G	KBU 404G	KBU 406G	KBU 408G	KBU 410G	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ $T_c=100^\circ\text{C}$	I_F	4.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125							A
Maximum Instantaneous Forward Voltage @ 4.0A	V_F	1.1							V
Maximum DC Reverse Current $T_j=25^\circ\text{C}$ rated DC blocking voltage per leg $T_j=100^\circ\text{C}$	I_R	10 100							μA
Typical Junction Capacitance Per Element (Note1)		110.0							pF
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



GLASS PASSIVATED BRIDGE RECTIFIERS

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

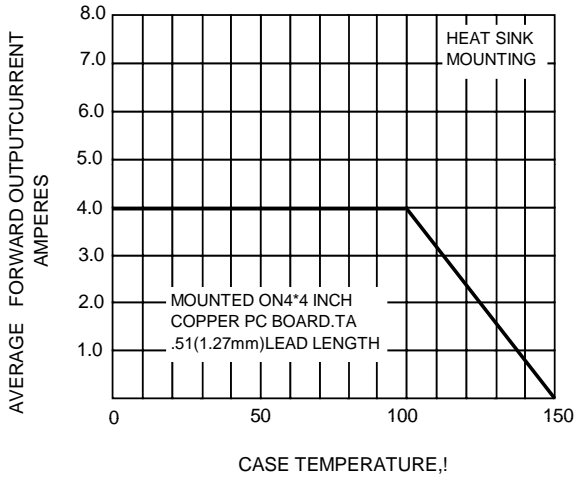


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

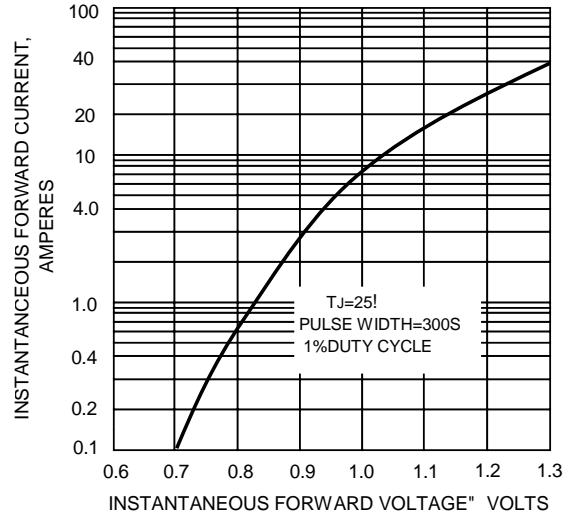


FIG.3-MAXIMUM NON-RETTITIVE PEAK FORWARD SURGE CURRENT

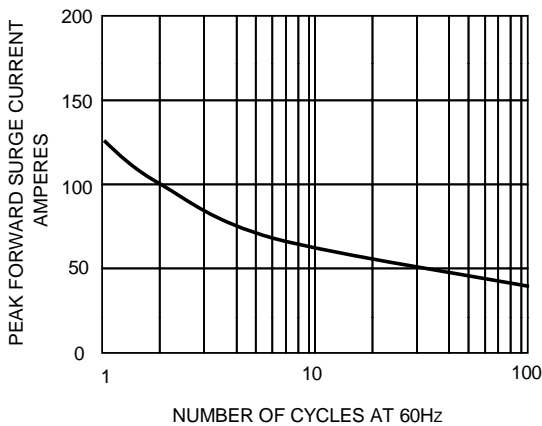


FIG.4-TYPICAL REVERSE CHARACTERISTICS

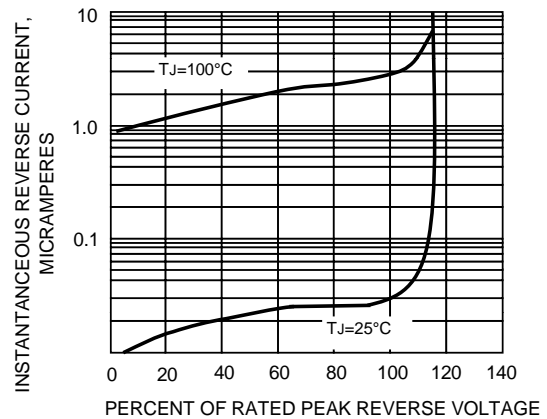


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

