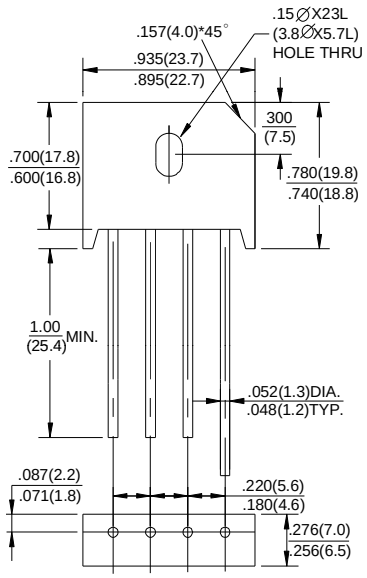
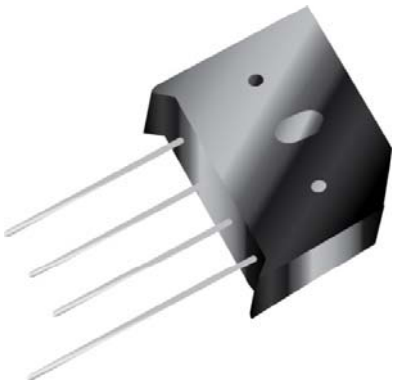
KBU4005 thru KBU410

SILICON BRIDGE RECTIFIERS



KBU

Dimensions in inches and (millimeters)



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

Features

- Surge overload rating -150 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Mounting position:Any
- Plastic material has UL
- Mounting postition:Any
- Mounting torgue:5 In.lb.Max

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

PARAMETER	SYMBOL	KBU 4005	KBU 401	KBU 402	KBU 404	KBU 406	KBU 408	KBU 410	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°C	I_F	4.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150							A
Maximum Instantaneous Forward Voltage @ 4.0A	V_F	1.1							V
Maximum DC Reverse Current Tj= 25°C rated DC blocking voltage per leg T_j= 100°C	I_R	10 100							uA
Typical Junction Capacitance Per Element (Note1)	CJ	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.

KBU4005 thru KBU410

SILICON BRIDGE RECTIFIERS

FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

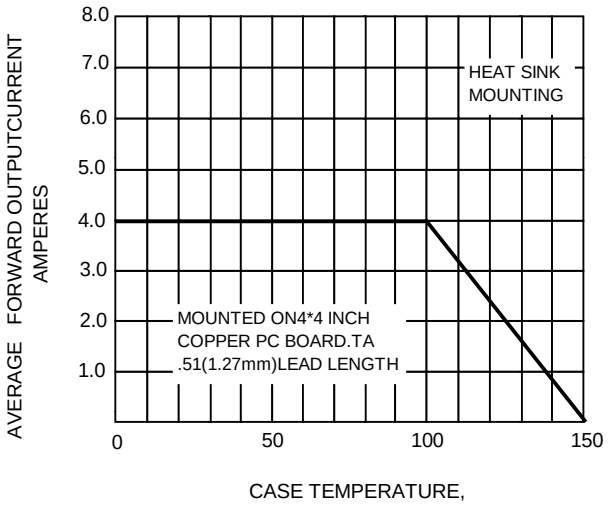


FIG.2 TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTIC

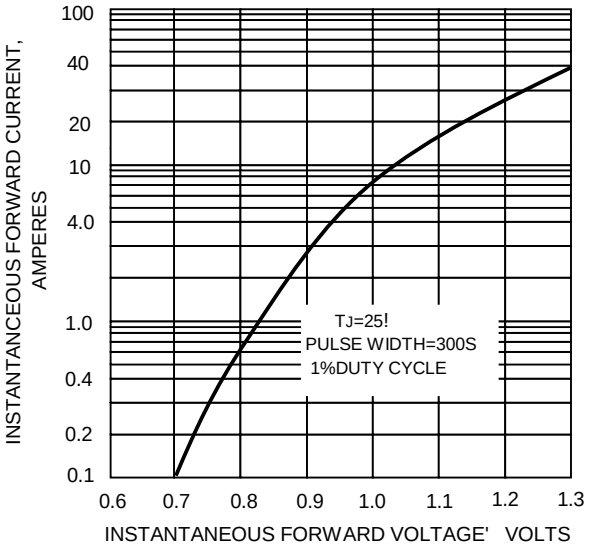


FIG.3-MAXIMUM NON-RETETITIVE PEAK
FORWARD SURGE CURRENT

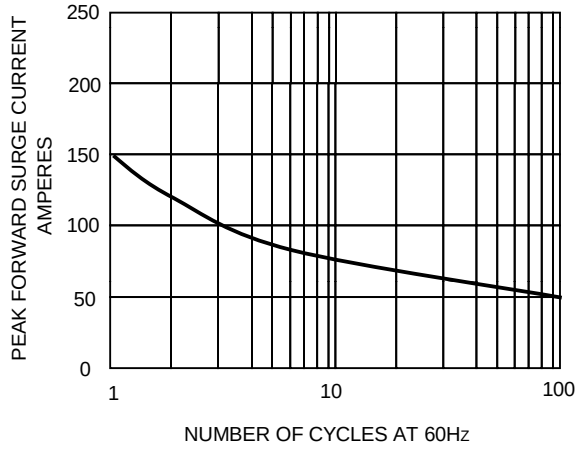


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

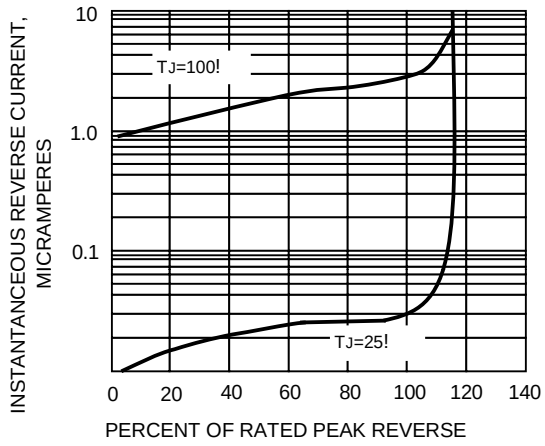


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT