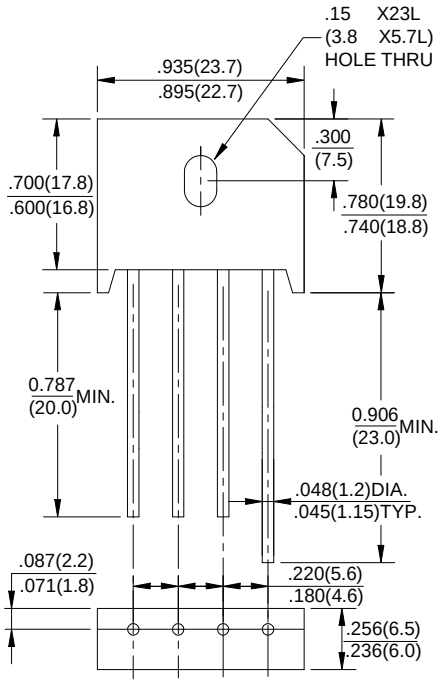
KBU 4 /6 /8

BRIDGE RECTIFIERS



Dimensions in inches and (milimeters)

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50** to **1000**Volts

FORWARD CURRENT - **4 / 6 / 8** Amperes

FEATURES

- Surge overload rating -150~200 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has UL flammability classification 94V-0
- Mounting postition:Any
- Mounting torgue:5 In.lb.Max
- Weight: 0.25ounces ,7.0grams

MAXIMUM RATINGS AND ELECTRICALCHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	KBU 4005 / 6005 / 8005	KBU 401 / 601 / 801	KBU 402 / 602 / 802	KBU 404 / 604 / 804	KBU 406 / 606 / 806	KBU 408 / 608 / 808	KBU 410 / 610 / 810	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 T_C=100℃	$I_{(AV)}$	KBU4	4.0	KBU6	6.0	KBU8		8.0	A
Rectified Output Current at T_A=50℃/40℃/45℃			4.0		6.0			6.0	A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}		150		170			200	A
Maximum Instantanous Forward Voltage Drop Per Element at 2.0A/3.0A/4.0A	V_F		1.0		1.0			1.0	V
Maximum Reverse Leakage at Rated T_A=25℃	I_R		10		10			10	μA
DC Blocking Voltage Per Element T_A=100℃			100		200			300	mA
Operating Temperature Range	T_J	-40 to +150							℃
Storage Temperature Range	T_{STG}	-40 to +150							℃

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

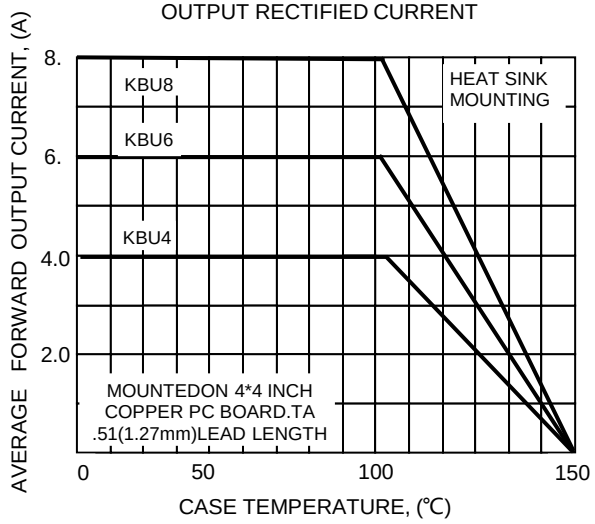


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

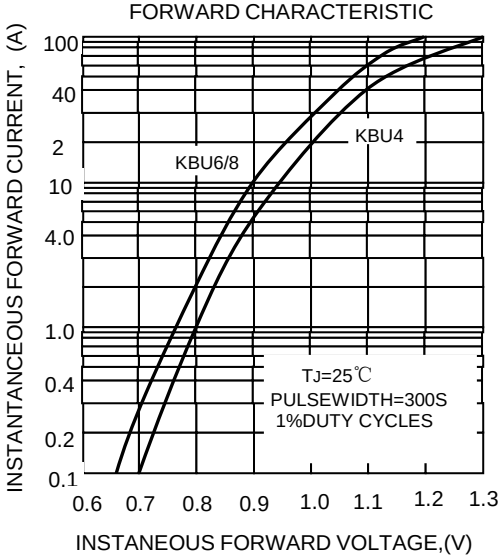


FIG.3-MAXIMUM NON-RETETITIVE PEAK FORWARD SURGE CURRENT

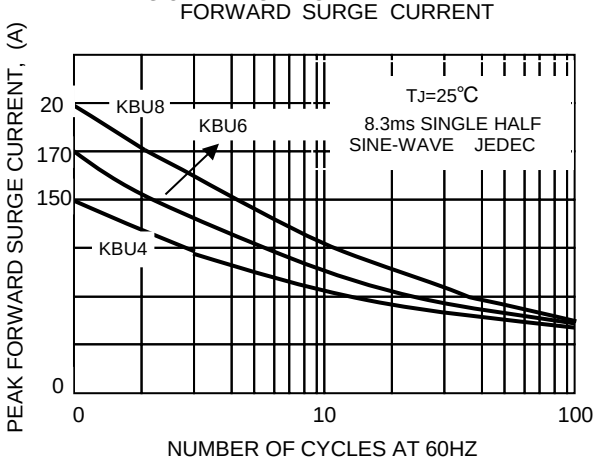


FIG.4-TYPICAL REVERSE CHARACTERISTICS

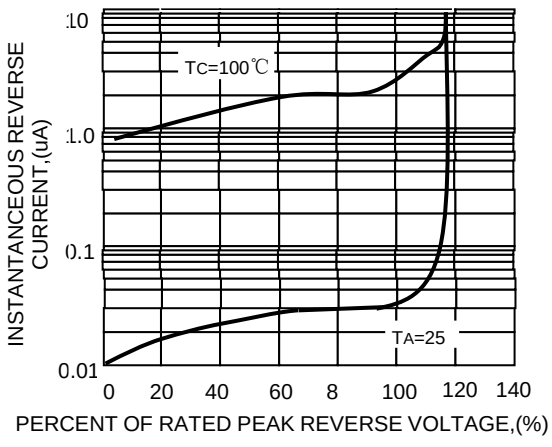


FIG.5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

