



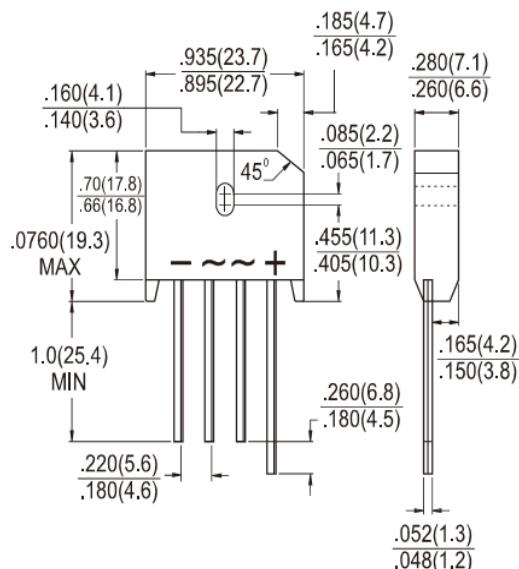
Features

- ◊ UL Recognized File #E-326243
- ◊ Ideal for printed circuit board
- ◊ High case dielectric strength
- ◊ Plastic material has Underwriters Laboratory flammability Classification 94V-0
- ◊ Typical IR less than 0.1uA
- ◊ High surge current capability
- ◊ High temperature soldering guaranteed: 260°C/10 seconds at 5 lbs.,(2.3kg) tension
- ◊ Green compound with suffix "G" on packing code & prefix "G" on datecode

KBU801 - KBU807

Single Phase 8.0AMPS. Bridge Rectifiers

KBU



Mechanical Data

- ◊ Case: Molded plastic body
- ◊ Terminals: Pure tin plated, lead free, leads solderable per MIL-STD-202, Method 208
- ◊ Weight: 8.0 grams
- ◊ Mounting Torque: 5 in lbs max.

Dimensions in inches and (millimeters)

Marking Diagram



KBU80X = Specific Device Code
 G = Green Compound
 Y = Year
 WW = Work Week

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

Type Number	Symbol	KBU 801	KBU 802	KBU 803	KBU 804	KBU 805	KBU 806	KBU 807	Units
Maximum Recurrent 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 Current @ $T_A=65^\circ\text{C}$	$I_{F(AV)}$	8						A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	300						A	
Rating of fusing ($t < 8.3\text{mS}$)	I^2t	373						A^2S	
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A @ 8 A	V_F	1.0 1.1						V	
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	10 500						uA	
Typical Junction Capacitance per leg (Note 2)	C_J	400						pF	
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$ $R_{\theta JC}$	18 3						$^\circ\text{C}/\text{W}$	
Operating Temperature Range	T_J	- 55 to + 125						$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	- 55 to + 150						$^\circ\text{C}$	

Note 1 : Pulse Test with PW=300u sec, 1% Duty Cycle

Note 2 : Measured at 1MHz and applied Reverse bias of 4.0V D.C.

Note 3 : Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.

RATINGS AND CHARACTERISTIC CURVES (KBU801 THRU KBU807)

FIG.1 MAXIMUM DERATING CURVE FOR
OUTPUT CURRENT

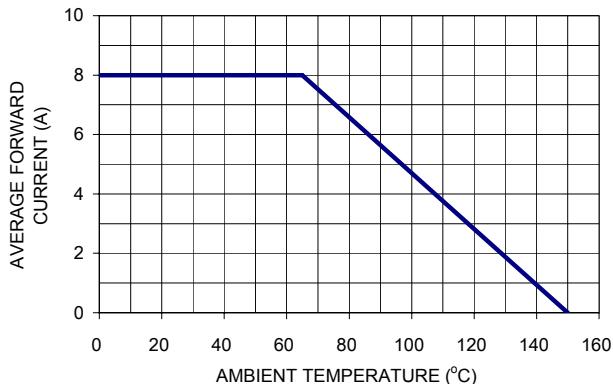


FIG. 2 MAXIMUM FORWARD SURGE CURRENT
PER LEG

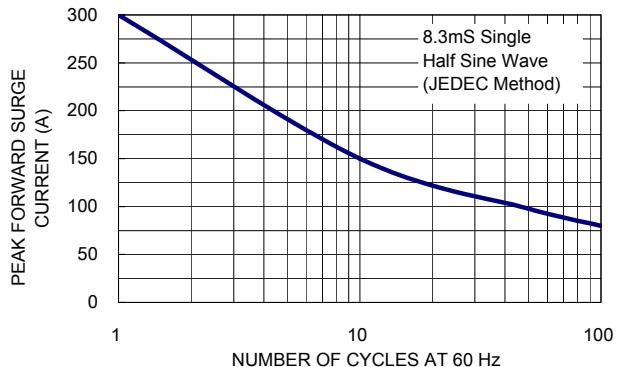


FIG. 3 TYPICAL REVERSE LEAKAGE
CHARACTERISTICS PER LEG

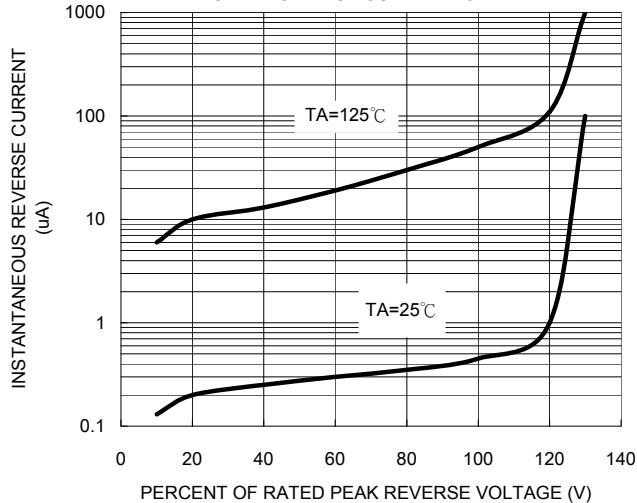


FIG. 4 TYPICAL FORWARD CHARACTERISTICS PER
LEG

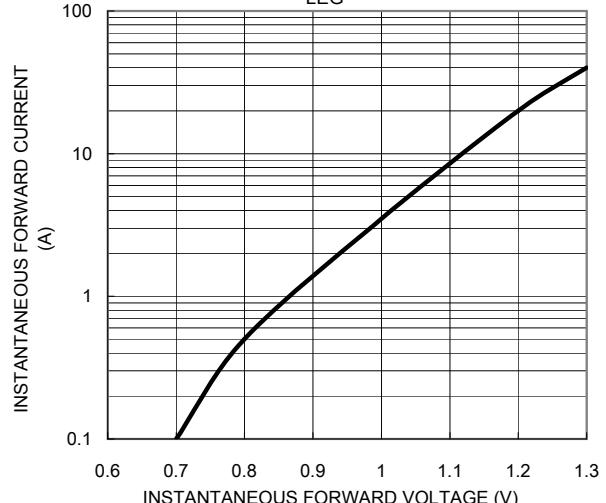


FIG. 5 TYPICAL JUNCTION CAPACITANCE

