



KBU801G - KBU807G

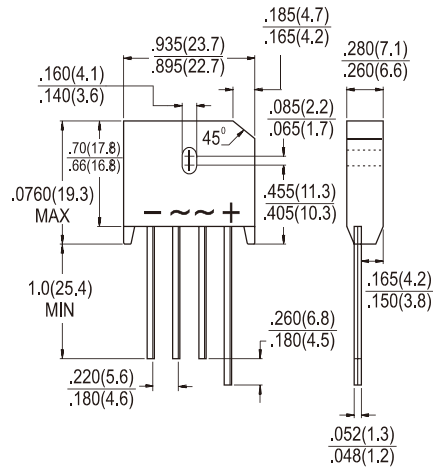
Single Phase 8.0 AMPS.
Glass Passivated Bridge Rectifiers
KBU

Features

- ◇ UL Recognized File # E-326243
- ◇ Glass passivated junction
- ◇ 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., (2.3 kg) tension
- ◇ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ◇ Case : Molded plastic body
- ◇ Terminal : Pure tin plated , Lead free. Leads solderable per MIL-STD-202 Method 208
- ◇ Weight : 8.0 grams
- ◇ Mounting Torque : 5 in lbs max.



Dimension in inches and (millimeter)

Marking Diagram



- KBU80XG = 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 801G	KBU 802G	KBU 803G	KBU 804G	KBU 805G	KBU 806G	KBU 807G	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 @ $T_A = 65^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	200							A
Rating of fusing ($t < 8.3\text{ms}$)	I^2t	166.0							A ² S
Maximum Instantaneous Forward Voltage @ 4.0A @ 8.0A	V_F	1.0 1.1							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$ (Note 1)	I_R	5.0 500							uA
Typical Junction Capacitance per leg (Note 3)	C_j	400							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$ $R_{\theta JC}$	18 3.0							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note : 1. Pulse Test with PW=300 usec, 1% Duty Cycle.
2. Unit case mounted on 4" x 6" x 0.25" Al plate heat sink.
3. Measured at 1MHz and applied Reverse bias of 4.0V DC.

RATINGS AND CHARACTERISTIC CURVES (KBU801G THRU KBU807G)

FIG 1 Maximum Derating Curve for Output Current

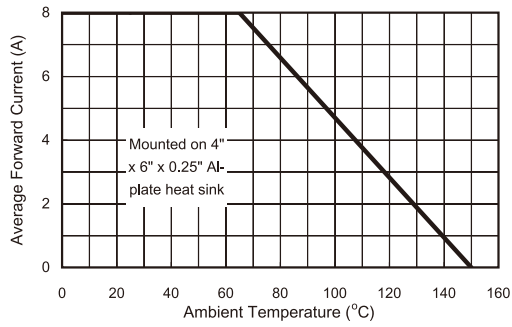


FIG 2 Maximum Forward Surge Current per Leg

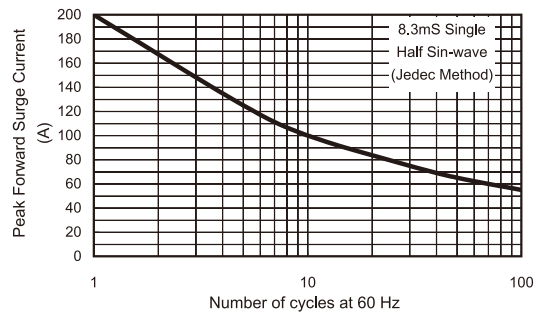


FIG 3 Typical Reverse Characteristics per Leg

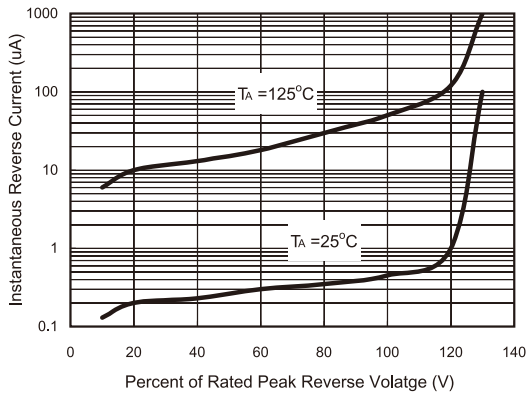


FIG 4 Typical Forward Characteristics per Leg.

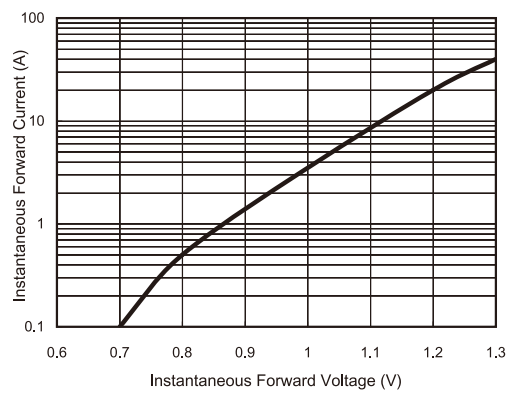


FIG 5 Typical Junction Capacitance

