



Single Phase Bridge Rectifier

Features

- Low cost
- This series is UL recognized under component Index, file number E127707
- Ideal for printed circuit board
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds, 0.375"(9.5mm) lead length at 5lbs(2.3kg) tension
- RoHS and REACH Compliance



Mechanical Data

Case:	Transfer Molded plastic
Polarity	Polarity symbols marked on case.
Terminals:	Leads solderable per MIL-STD-202E method 208C
Mounting torque	Max.
Mounting position:	Thru hole for #6 screw, 5in, -lbs.
Weight:	0.27 ounce, 7.59 gram

Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

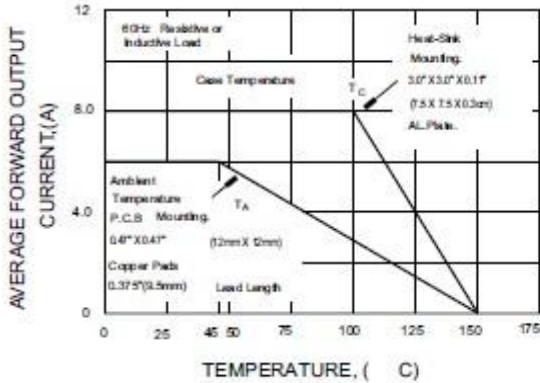
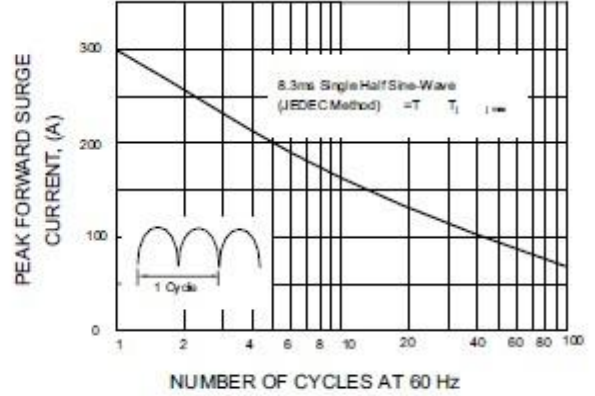
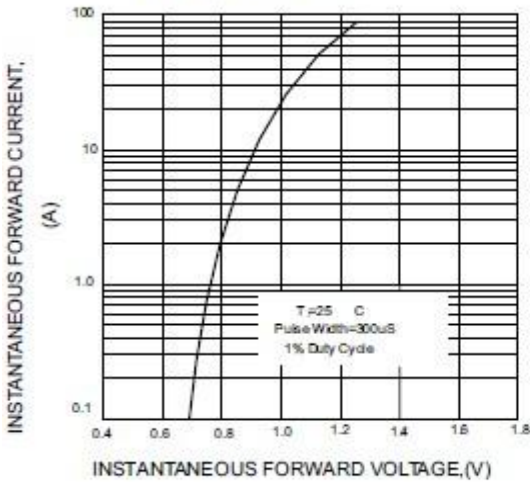
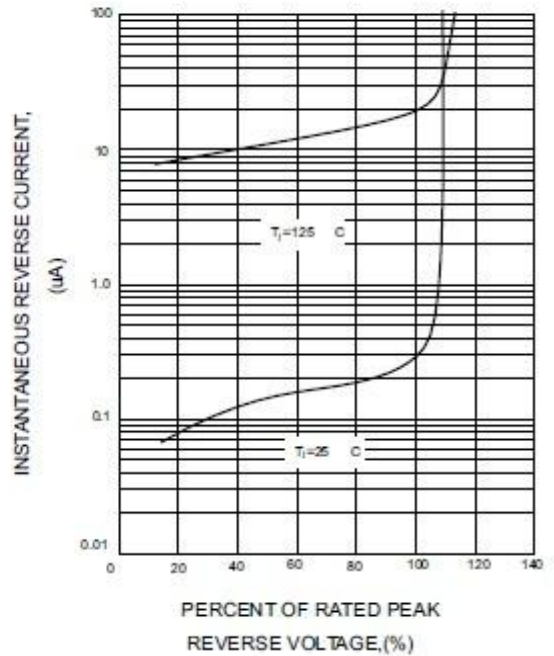
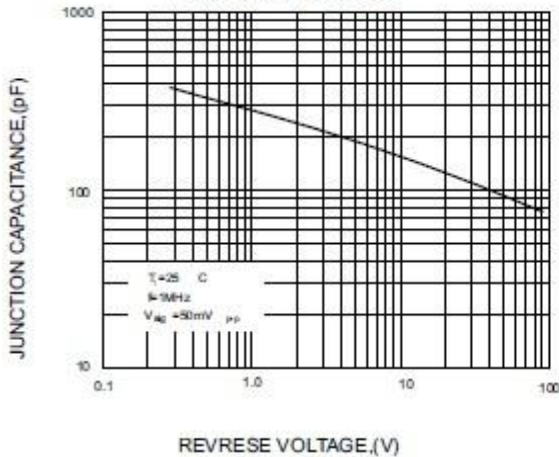
Symbol	Description	KBU804	Unit	Conditions
VRRM	Max Recurrent Peak Reverse Voltage	400	V	
VRMS	Max RMS Voltage	280	V	
VDC	Max DC Blocking Voltage	400	V	
I(AV)	Max Average Forward Rectified Current	8.0 / 6.0	A	@TC=100°C , TA =45°C (Note 3)
IFSM	Peak Forward Surge Current	300	A	8.3ms single half sine-wave (JEDEC method)
TJ,TSTG	Operating and Storage Temperature Range	-65 to +150, -65 to +150	°C	
I2t	Rating for Fusing	373	A2s	T<8.3mS

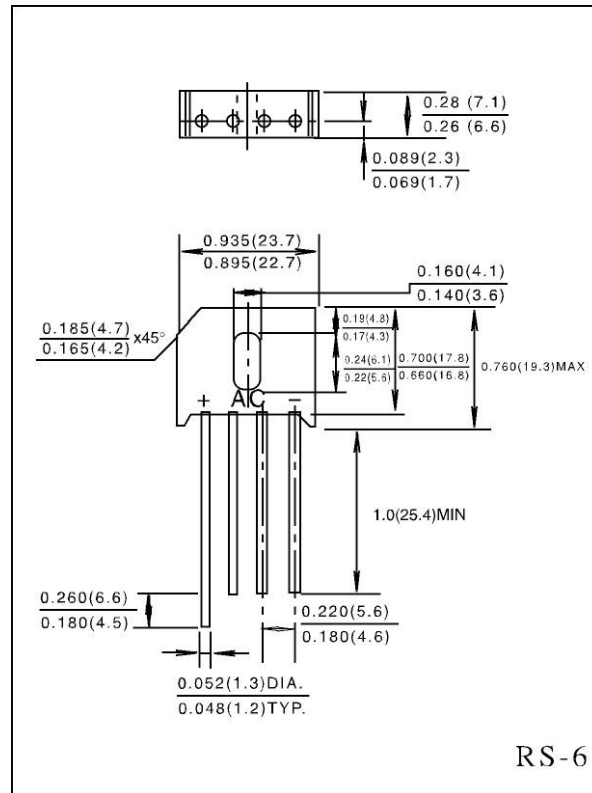
Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	KBU804	Unit	Conditions
V _F	Max Instantaneous Forward Voltage	1.0	v	Drop per Bridge element 8.0A
I _R	Max DC Reverse Current at Rated DC Blocking Voltage	10	μA	T _A =25°C
		1.0		T _A =100°C
R _{θ-JC}	Typical Thermal Resistance	5.0	°C/W	Note 2
C _J	Typical Junction capacitance	200	pF	Note 1

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Unit mounted on 3.0" x 3.0" x 0.11" thick (7.5 x 7.5 x 0.3cm) Al plate
3. Unit mounted in free air, no heatsink, P.C. Board at 0.5" x 0.5" (12 x 12mm) copper pads and 0.375 (9.5mm) lead length

RATINGS AND CHARACTERISTIC CURVES KBU804
**FIG.1-DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT**

**FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT PER ELEMENT**

**FIG.3-TYPICAL FORWARD CHARACTERISTICS
PER BRIDGE ELEMENT**

**FIG.4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT**

**FIG.5-TYPICAL JUNCTION CAPACITANCE
PER BRIDGE ELEMENT**


Dimensions in inches (mm)

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