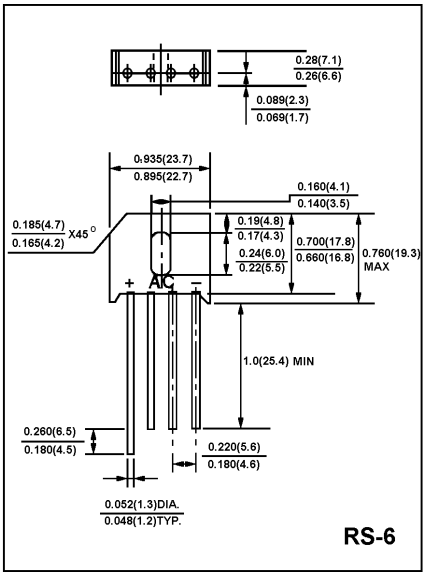
MOSPEC

KBU804

SINGLE-PHASE BRIDGE RECTIFIER



FEATURES

- ＊Low cost
- ＊High forward surge current capability
- ＊Ideal for printed circuit board
- ＊High temperature soldering guaranteed: 260°c/10 second,0.375”(9.5mm)lead length at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- ＊Case: Transfer molded plastic
- ＊Epoxy: UL94V-O rate flame retardant
- ＊Terminals：Lead Solderable Per MIL-STD-202 method 208
- ＊Polarity：Polarity symbols marked on case
- ＊Mounting :Thru hole for #6 screw, 5 in,-lbs.Torqute Max.
- ＊Weight： 0.27 ounce, 7.59 gram

MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

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

Characteristic	Symbol	KBU804	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	400	V
RMS Reverse Voltage	$V_{R(RMS)}$	280	V
Average Rectifier Forward Current @ T_A=100℃ (Note 3) @ T_A=50℃	$I_{O(AV)}$	8.0 6.0	A
Non-Repetitive Peak Surge Current 8.3 ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	300	A
Forward Voltage (per element) (I_F =8.0 Amp)	V_{FM}	1.0	V
Peak Reverse Current (Rated DC Voltage, T_C = 25℃) (Rated DC Voltage, T_C = 125℃)	I_R	 10 1.0	 uA mA
Rating for Fusing(t<8.3 ms)	I^2t	373	A^2s
Typical Junction Capacitance per element (Note1)	C_J	200	pF
Typical Thermal Resistance (note 2)	$R_{\theta jA}$	5.0	k/W
Operating and Storage Temperature Range	T_J , T_{stg}	-65 to +150	℃

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Unit mounted on 3.0”×3.0”×0.11” thick (7.5×7.5×0.3 cm) Al. plate.
3. Unit mounted in free air, no heatsink, P.C.B. at 375”(9.5mm) lead length with. 5”×5”(12×12 mm) copper pads..

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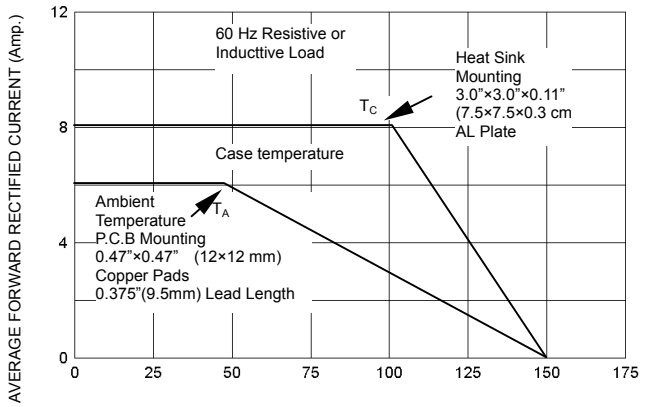
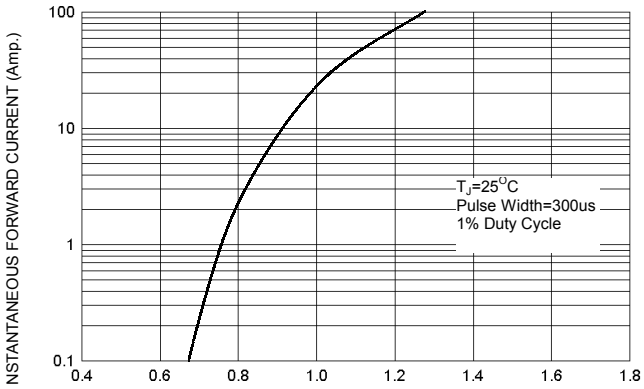
FIG-1 FORWARD CURRENT DERATING CURVE



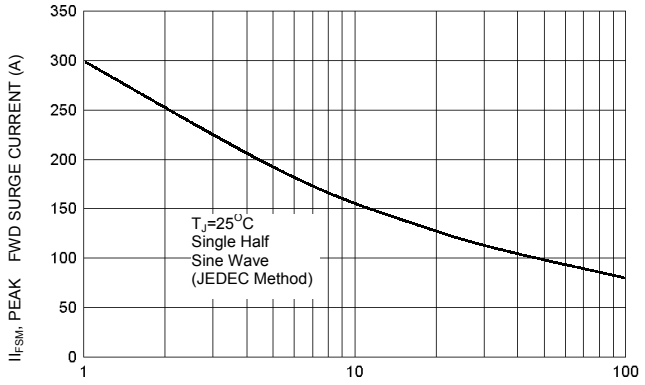
CASE TEMPERATURE (℃)

FIG-2 TYPICAL FORWARD CHARACTERISITICS



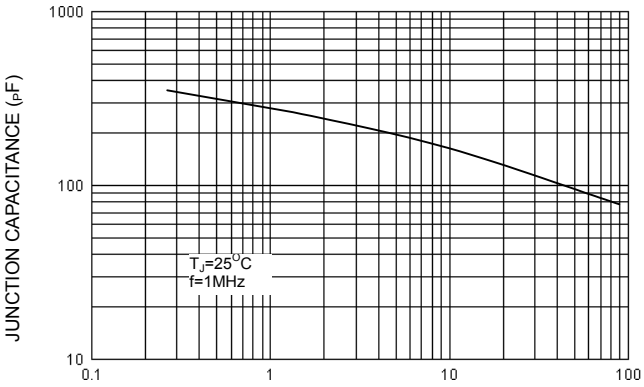
FORWARD VOLTAGE (Volts)

FIG-3 PEAK FORWARD SURGE CURRENT



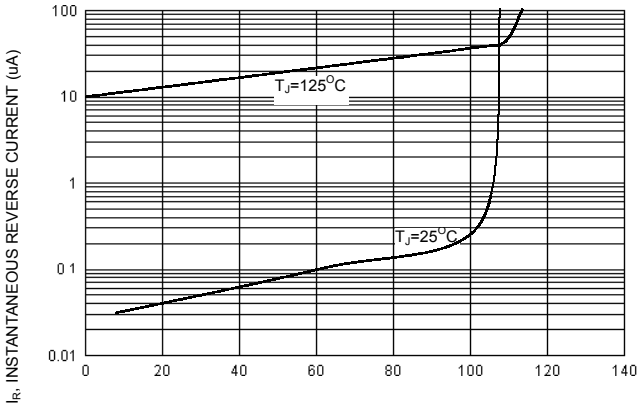
NUMBER OF CYCLES AT 60 Hz

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)

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