MAX-DIODE ELECTRONIC CO.,LTD

KBU1000 SERIES

SILICON BRIDGE RECTIFIERS

FEATURES

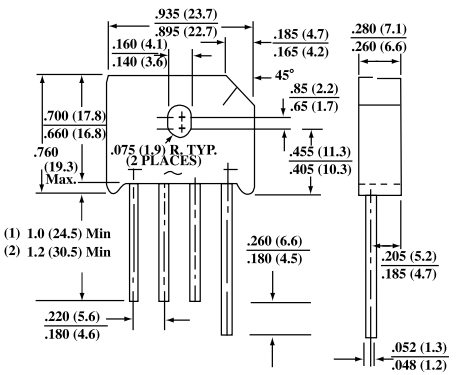
- Plastic material used carries Underwriters Laboratory Flammability Classification 94V-0
- Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique.
- Surge overload rating : 300 amperes peak.
- High temperature soldering guaranteed : 265℃ /10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension.

MECHANICAL DATA

Case : Reliable low cost construction utilizing molded plastic technique.
Terminals : Leads solderable per MIL-STD-202,Method 208.
Mounting position : Any.
Mounting Torque : 5 In. 1b. max.
Weight : 6.9 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
10.0 Amperes

KBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	KBU1000	KBU1001	KBU1002	KBU1004	KBU1006	KBU1008	KBU1010	Units
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward T_A = 100℃ Rectified Output Current at T_A = 45℃	10.0 6.0							A
Peak Forward Surge Current Single sine-wave superimposed on rated load (JEDEC Method)	300							A
Maximum Instantaneous Forward Voltage Drop per element at 8.0 A	1.1							V
Maximum Reverse Leakage at Rated T_A = 25℃ DC Blocking Voltage per element T_A = 100℃	10.0 300							μA mA
Maximum Thermal Resistance JC (Note 1)	2.5							℃/ W
Operating and Storage Temperature Range, T_J T_{STG}	-55 to + 150							℃

NOTE : 1. -Thermal Resistance from Junction to Case for total bridge.

RATING AND CHARACTERISTIC CURVES KBU1000 SERIES

FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

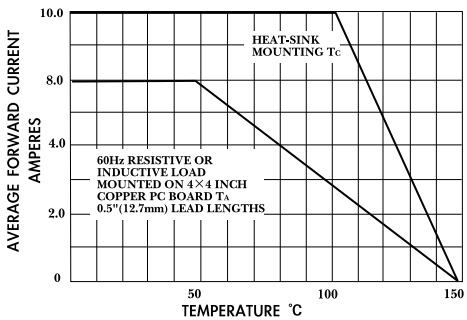


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

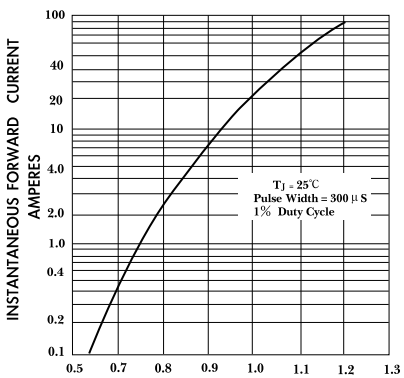


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

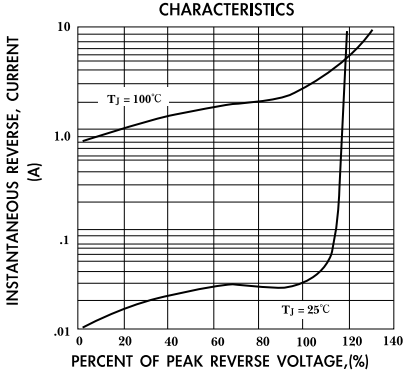


FIG. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

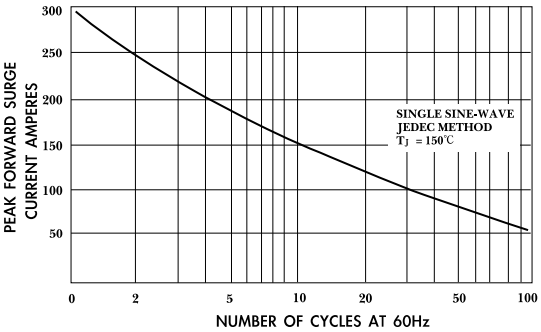


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER ELEMENNT