



KBU800 SERIES

SILICON BRIDGE RECTIFIERS

FEATURES

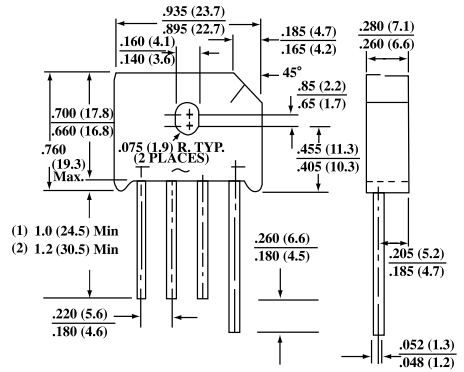
- Plastic material used carries Underwriters Laboratory recognition.
- Exceeds environmental standards of MIL-STD-19500.
- Surge overload rating : 300 amperes peak.
- High temperature soldering guaranteed : 265°C /10 seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension.

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. lb. max.
 Weight : 6.9 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
8.0 Amperes

KBU



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	KBU800	KBU801	KBU802	KBU804	KBU806	KBU808	KBU8010	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 Rectified Output Current at T _c = 100°C T _A = 45°C								8.0 6.0	A
Peak Forward Surge Current Single half sine-wave Superimposed on rated load (JEDEC Method)								250	A
Maximum Instantaneous Forward Voltage Drop per element at 8.0 A								1.1	V
Maximum Reverse Leakage at Rated DC Blocking Voltage per element T _A = 25°C T _A = 100°C								10.0 1.0	μA mA
Operating and Storage Temperature Range T _{STG}								-55 to + 150	°C



RATING AND CHARACTERISTIC CURVES KBU800 SERIES

FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

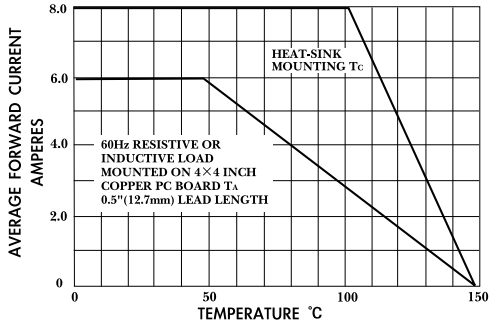


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

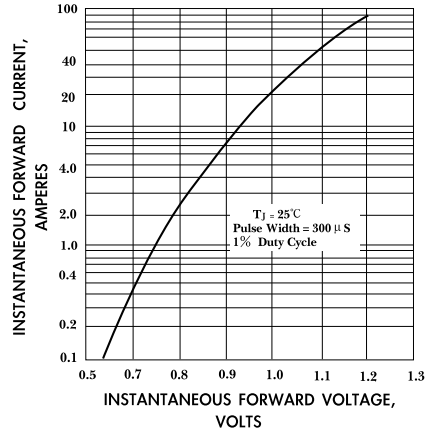


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

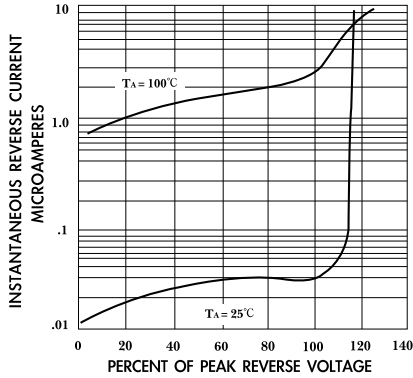


FIG. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

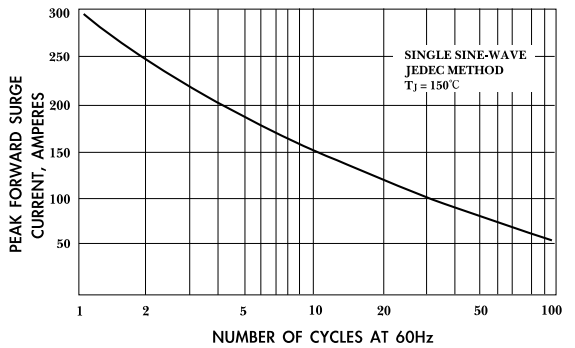


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

