



KBU600 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

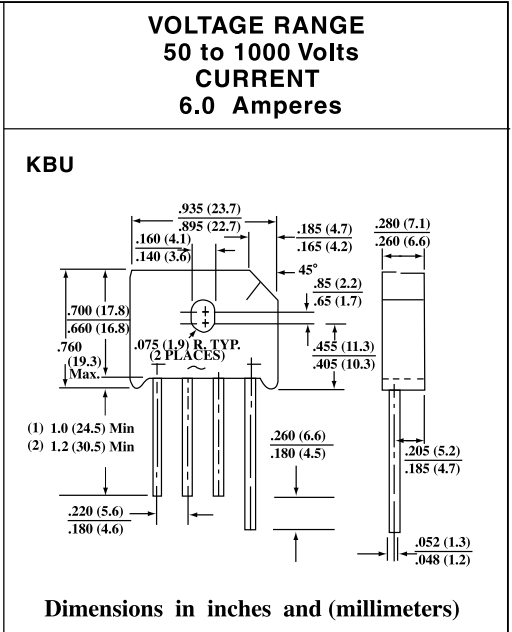
Case : Reliable low cost construction utilizing molded plastic technique.

Terminals : Leads solderable per MIL-STD-202,Method 208.

Mounting position : Any.

Mounting Torque : 5 in. lb. max.

Weight : 6.9 grams.



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	KBU600	KBU601	KBU602	KBU604	KBU606	KBU608	KBU6010	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 = 40°C								6.0 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 6.0 A								1.0	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 _i T _{STG}								-55 to + 150	°C



RATING AND CHARACTERISTIC CURVES KBU600 SERIES

FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

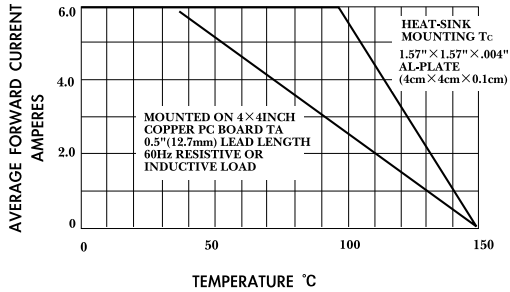


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

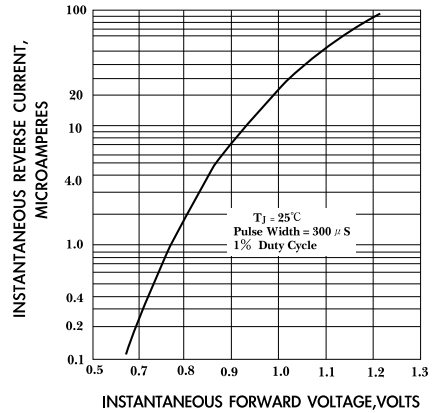


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

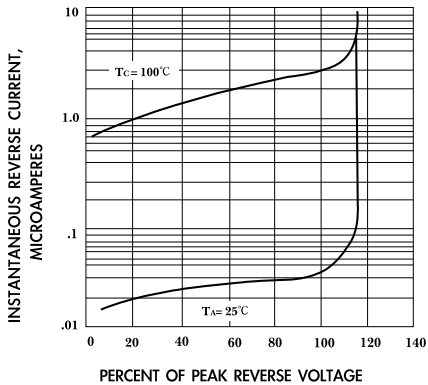


FIG. 4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

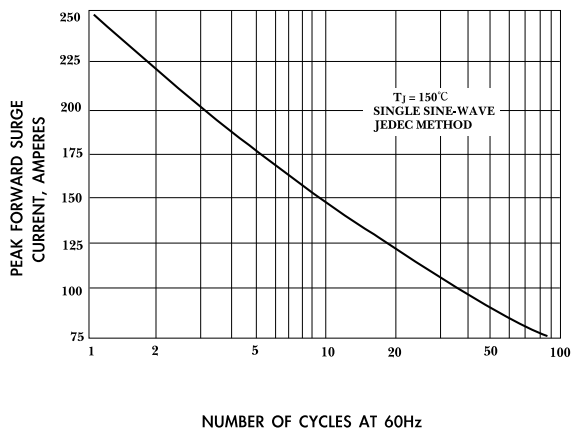


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT

