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Carvic International Ltd.

KBU800 SERIES

SILICON SINGLE-PHASE BRIDGE RECTIFIER

FEATURES

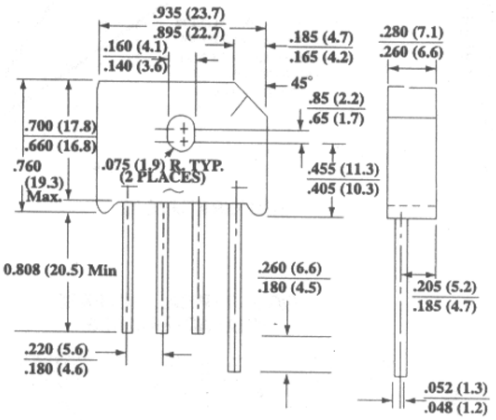
- Plastic material used carries Underwriters Laboratory recognition.
- Exceeds environmental standards of MIL-STD-19500.
- Surge overload rating: 300 amperes peak.
- High temperature soldering guaranteed: 265℃/10 seconds/.375" ,(9.5mm) lead length at 5lbs.,(2.3kg) tension.

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: 0.3 ounces, 8.0 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℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	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 Tc=100℃	8.0							A
Rectified Output Current at TA=45℃	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 bridge element at 8.0A	1.0							V
Maximum Reverse Leakage at rated DC Blocking Voltage TA=25℃	10.0							μA
per element TA=100℃	1.0							mA
Operating and Storage Temperature Range , TJ TSTG	- 55 To + 150							℃

Carvic International Ltd.

RATING AND CHARACTERISTIC CURVES
KBU800 SERIES

FIG .1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

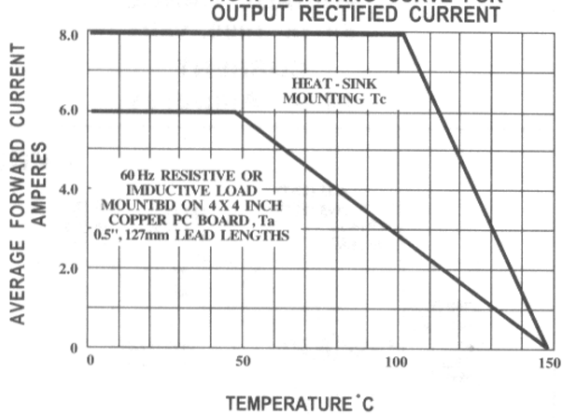


FIG .2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELENENT

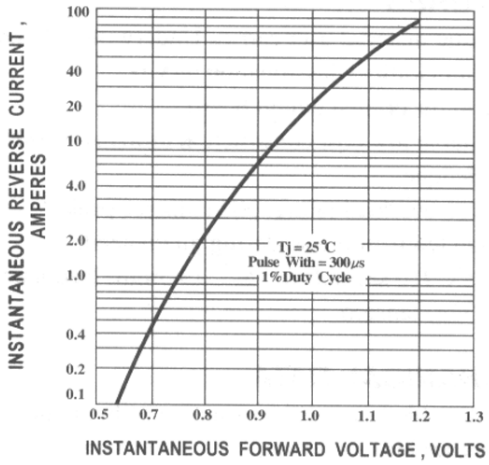


FIG .3 - TYPICAL REVERSE CHARACTERISTICS

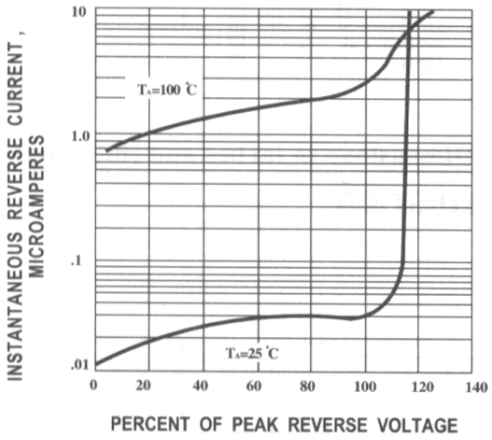


FIG .4 - MAXINUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

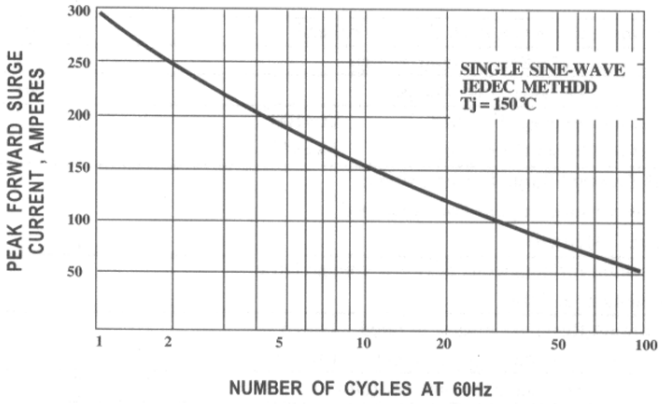


FIG .5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT