MAX-DIODE ELECTRONIC CO.,LTD

KBL400 SERIES

SILICON BRIDGE RECTIFIERS

FEATURES

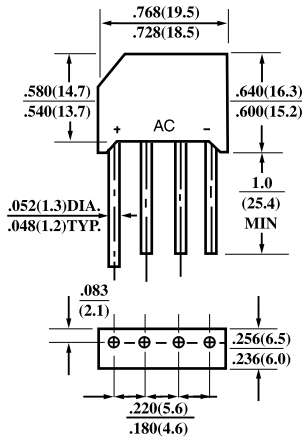
- This Series is UL recognized under the file number E135627.
- Plastic material used carries Underwriters Laboratory recognition.
- Exceeds environmental standards of MIL-STD-19500.
- Surge overload rating : 200 amperes peak.
- High temperature soldering guaranteed : 265℃ /10 seconds/.375", (9.5mm) 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
Weight : 4.9 grams.

VOLTAGE RANGE
50 to 1000 Volts
CURRENT
4.0 Amperes

KBL



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	KBL400	KBL401	KBL402	KBL404	KBL406	KBL408	KBL4010	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 Current at T_A = 50℃	4.0							A
Peak Forward Surge Current Single sine-wave superimposed on rated load (JEDEC Method)	200							A
Maximum Instantaneous Forward Voltage Drop per element at 4.0 A	1.0							V
Maximum DC Reverse Current T_A = 25℃ at Rated DC Blocking Voltage T_A = 100℃	10.0 1.0							μA mA
Operating and StorageTemperature Range T_J T_{STG}	-55 to + 150							℃

NOTE : 1. Mounting conditions, 0.5" (1.27mm) lead length.

RATING AND CHARACTERISTIC CURVES KBL400 SERIES

FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

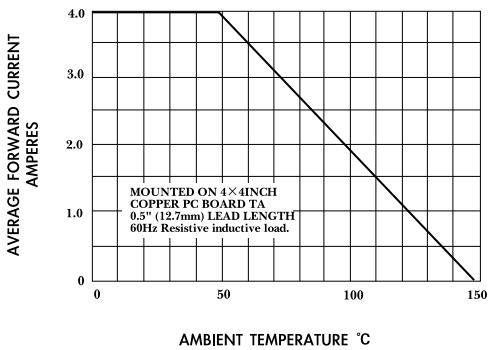


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

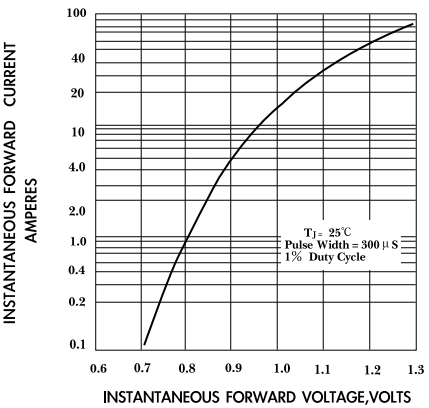


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

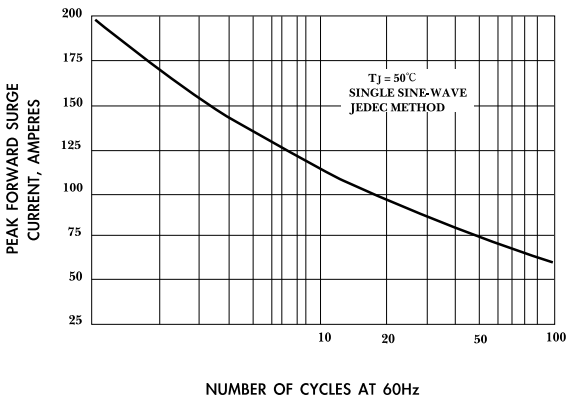


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

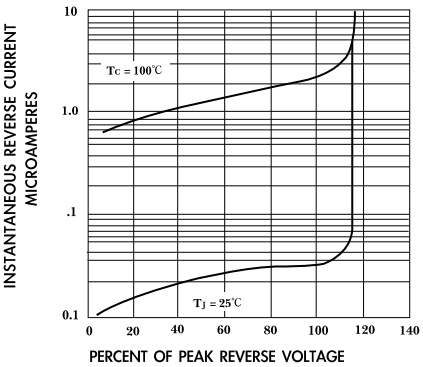


FIG. 5-TYPICAL JUNCTION CAPACITANCE PER ELEMENT