



KBJ10,15,20,25 SERIES

SILICON BRIDGE RECTIFIERS

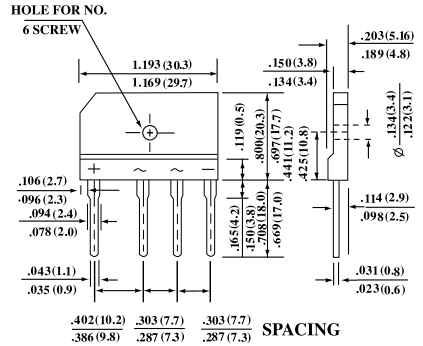
FEATURES

- Integrally molded heatsinks provide very low thermal resistance for maximum
- Surge overload rating: 400 amperes.
- Terminals either universal .25 [6.35 mm] FASTON or wire leads.
- High temperature soldering guaranteed:
265 °C / seconds/ 5lbs., [2.3kg] tension.

MECHANICAL DATA

Case : metal or molded plastic with heatsink integrally mounted in the bridge encapsulation.
 Suffix letter "P" added to indicate plastic.
 Terminals :Either plated .25" [6.35mm] FASTON or plated copper leads .040" [1.02mm] diameter.
 Suffix letter "W" add to indicate leads.
 Weight: 31 grams.
 Mounting position : bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum head transfer efficiency.
 Mounting Torque : 20 in.lb. max.

KBJ



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 60Hz.
 For capacitive load, derate current by 20%.

RATINGS		-00	-01	-02	-04	-06	-08	-10	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 Tc = 55°C	KBJ10 KBJ15 KBJ20 KBJ25				10 15 20 25				A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC Method)	KBJ10 KBJ15 KBJ20 KBJ25				180 200 300 350				A
Maximum Instantaneous Forward Voltage per Bridge Element at Specified Current	KBJ10 KBJ15 KBJ20 KBJ25	IF { 10A 15A 20A 25A			1.1				V
Maximum DC Reverse Current at Rated DC Blocking voltage per element					10.0				μA
Maximum Thermal Resistance θ J-C (Note)					1.2				°C/W
Operating Temperature Range T _A					-65 to +125				°C
Storage Temperature Range T _{STG}					-65 to +150				°C

NOTE : Device mounted on 100mm × 100mm × 1.6mm Cu Plate Heatsink.



RATING AND CHARACTERISTIC CURVES
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FIG. 1-MAXIMUM FORWARD CURRENT DERATING CURVE

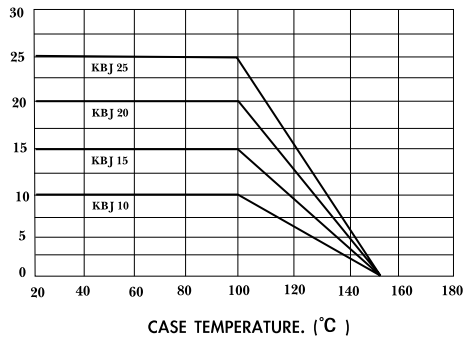


FIG. 2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

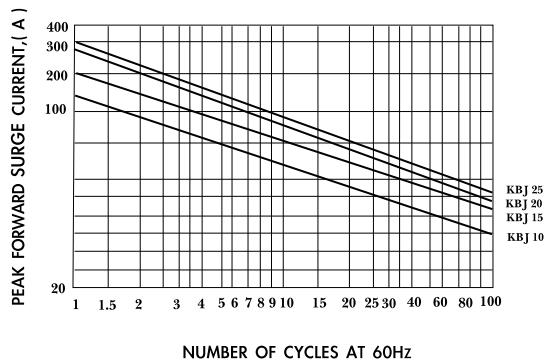


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

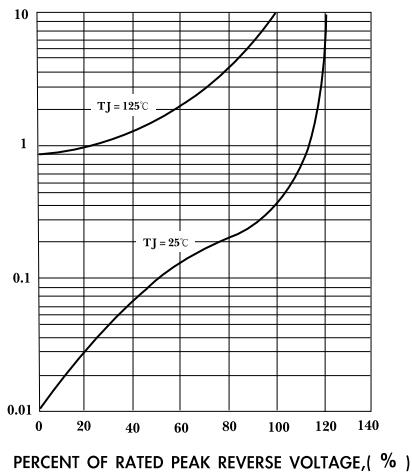


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

