

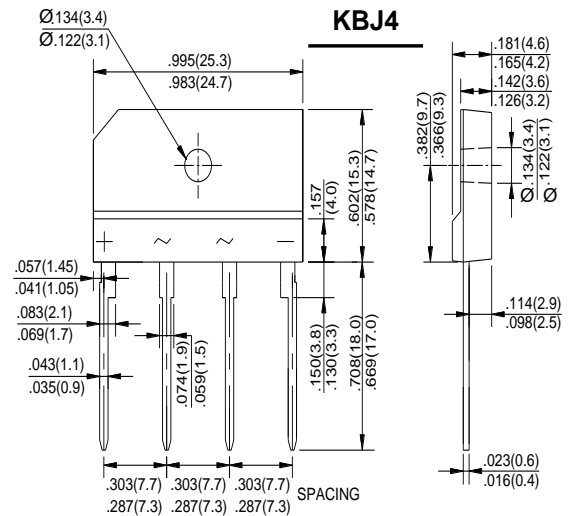


### FEATURES

- Rating to 1000V PRV
- Surge overload rating to 240 Amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead solderable per MIL-STD-202 method 208

### MECHANICAL DATA

- Polarity: Symbols molded on body
- Weight: 0.23 ounces, 6.6 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

### Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	KBJ15A	KBJ15B	KBJ15D	KBJ15G	KBJ15J	KBJ15K	KBJ15M	UNITS
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum average forward Output current @T <sub>A</sub> =100°C	I <sub>F(AV)</sub>	15.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	240.0							A
I <sup>2</sup> t Rating for fusing @T <sub>j</sub> =25°C	I <sup>2</sup> t	239							A <sup>2</sup> S

### Thermal Characteristics

Characteristic	Symbol	KBJ15A	KBJ15B	KBJ15D	KBJ15G	KBJ15J	KBJ15K	KBJ15M	UNITS
Typical junction capacitance per element	C <sub>J</sub>	79							pF
Typical thermal resistance	R <sub>θJA</sub> R <sub>θJC</sub>	22 1.4							°C/W
Operating junction temperature range	T <sub>J</sub>	- 55 ---- + 150							°C
Storage temperature range	T <sub>STG</sub>	- 55 ---- + 150							°C

### Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	KBJ15A	KBJ15B	KBJ15D	KBJ15G	KBJ15J	KBJ15K	KBJ15M	UNITS
Maximum instantaneous forward voltage @7.5A @15A	V <sub>F</sub>	1.0 1.1							V
Maximum reverse current @T <sub>A</sub> =25 °C at rated DC blocking voltage @T <sub>A</sub> =100°C	I <sub>R</sub>	5.0 0.5							μA mA



FIG.1 – PEAK FORWARD SURGE CURRENT

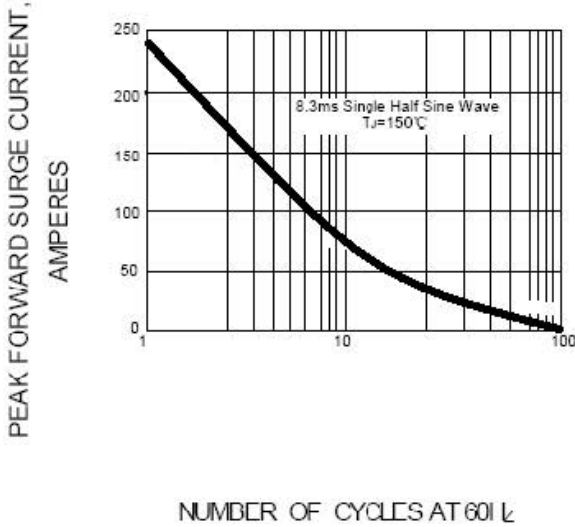


FIG.2 – FORWARD DERATING CURVE

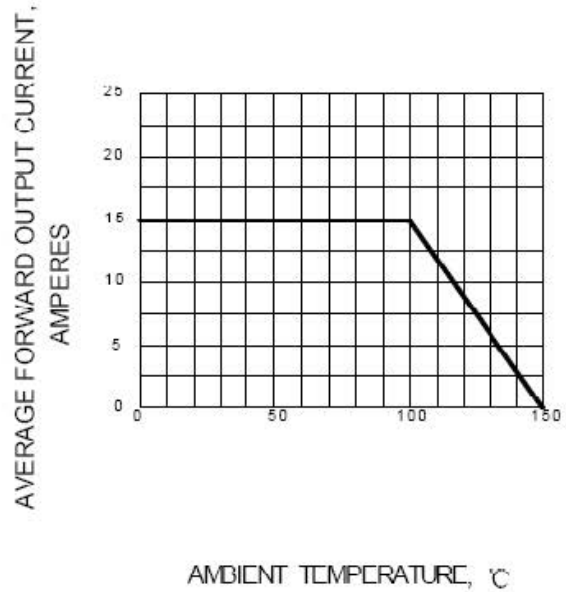


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

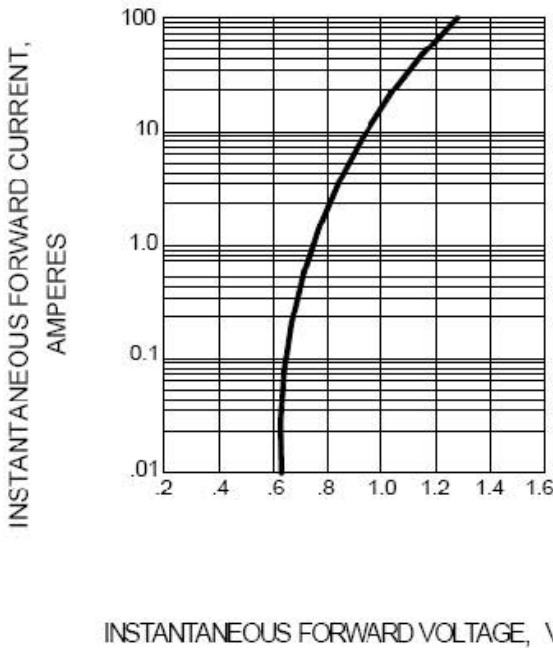
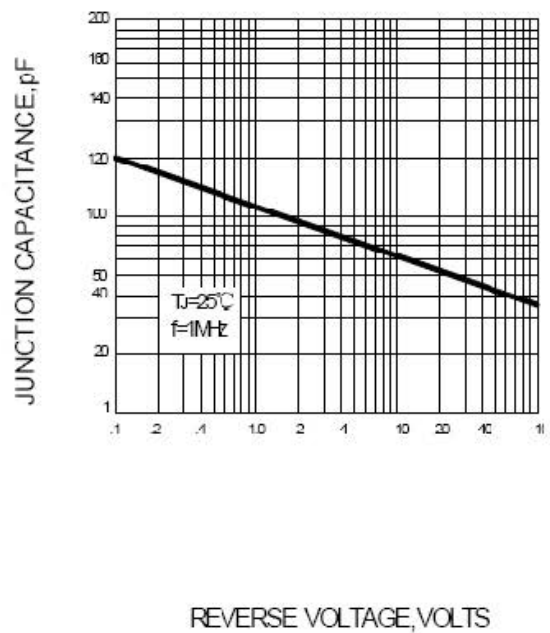


FIG.4 – TYPICAL JUNCTION CAPACITANCE



Device	Package	Shipping
KBJ15A--KBJ15M	KBJ4	3000 Units/Box