

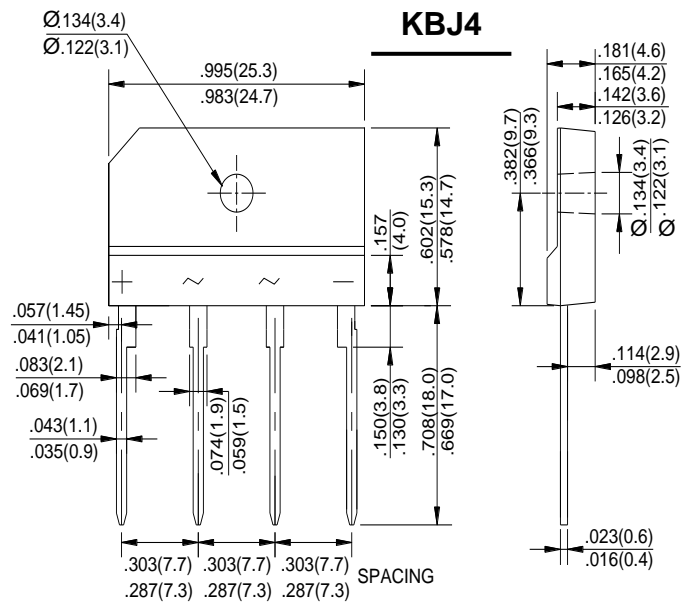


FEATURES

- Rating to 1000V PRV
- Surge overload rating to 200 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 (@T_A = 25°C unless otherwise specified)

Characteristic	Symbol	KBJ10A	KBJ10B	KBJ10D	KBJ10G	KBJ10J	KBJ10K	KBJ10M	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward Output current @T _A =110°C	I _{F(AV)}	10.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	175.0							A
I ² t Rating for fusing @T _j =25°C	I ² t	120							A ² S

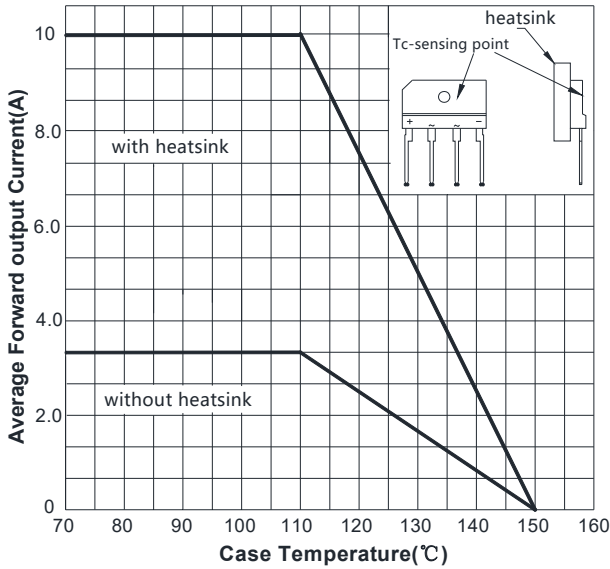
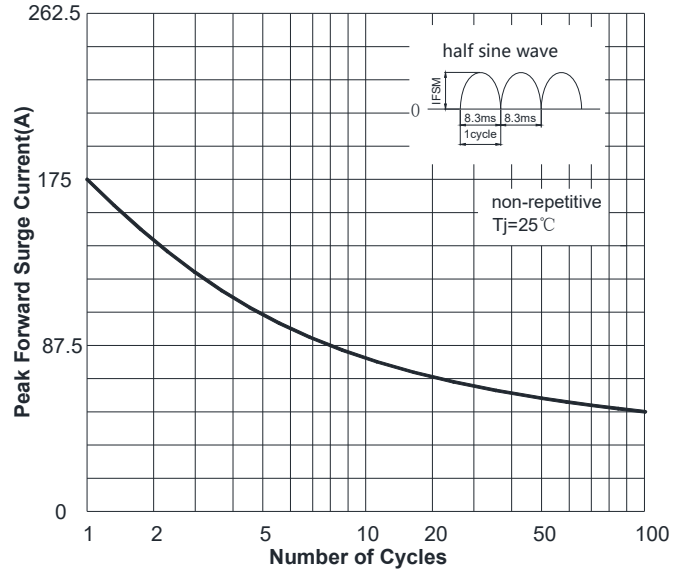
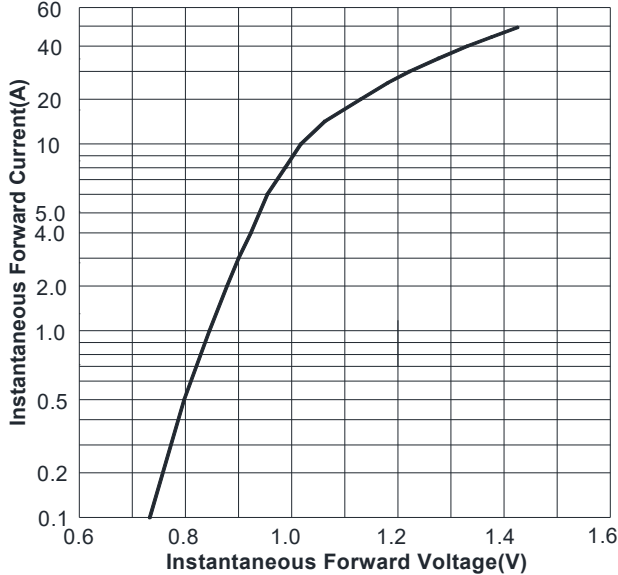
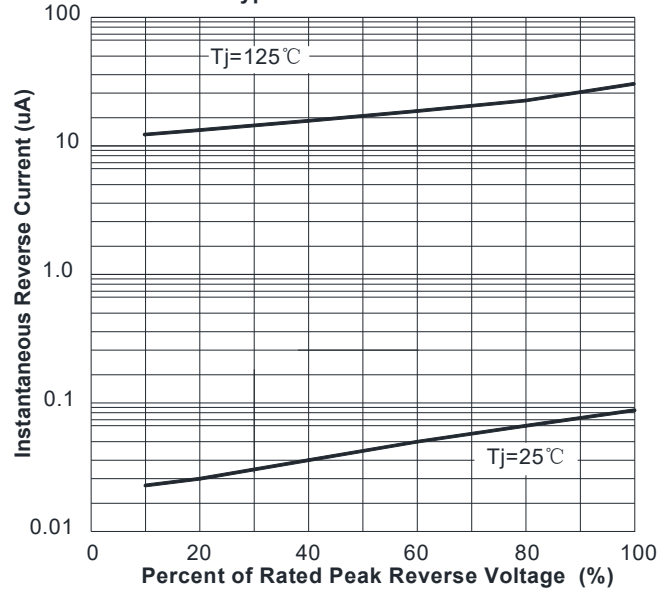
Thermal Characteristics

Characteristic	Symbol	KBJ10A	KBJ10B	KBJ10D	KBJ10G	KBJ10J	KBJ10K	KBJ10M	UNITS
Typical junction capacitance per element	C _J	45							pF
Typical thermal resistance	R _{θJA} R _{θJC}	22 2.2							°C/W
Operating junction temperature range	T _J	- 55 ---- + 150							°C
Storage temperature range	T _{STG}	- 55 ---- + 150							°C

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

Characteristic	Symbol	KBJ10A	KBJ10B	KBJ10D	KBJ10G	KBJ10J	KBJ10K	KBJ10M	UNITS
Maximum instantaneous forward voltage @5.0A @10.0A	V _F	1.0 1.1							V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =100°C	I _R	5.0 0.5							μA mA

TYPICAL CHARACTERISTIC CURVES

FIG1: Forward Current Derating Curve

FIG2: Surge Forward Current Capability

FIG3: Typical Forward Voltage

FIG4: Typical Reverse Characteristics


Device	Package	Shipping
KBJ10A--KBJ10M	KBJ4	300 Units/Box