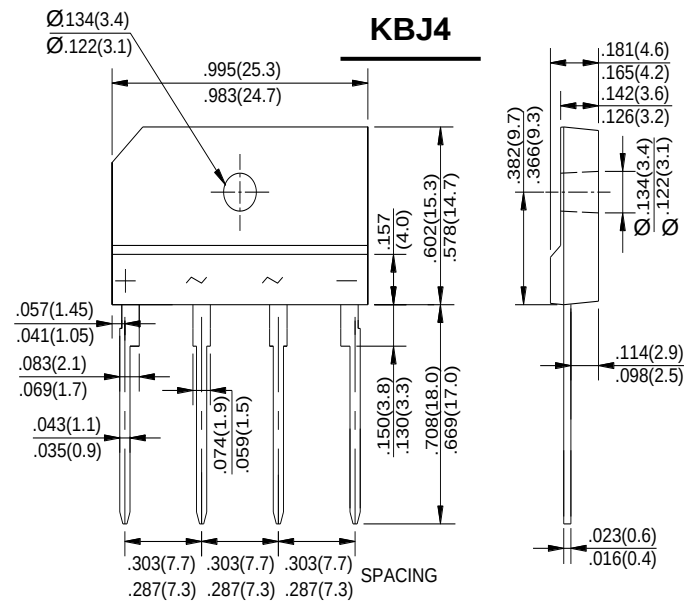


FEATURES

- Rating to 1000V PRV
- Surge overload rating to 175 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
- Glass passivated chip junctions

MECHANICAL DATA

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



Maximum Ratings (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Dimensions in inches and (millimeters)

Characteristic	Symbol	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	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 @ $T_A = 100^\circ\text{C}$	$I_{F(AV)}$	8.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	175							A
I^2t Rating for fusing @ $T_j = 25^\circ\text{C}$	I^2t	127							A ² S

Thermal Characteristics

Characteristic	Symbol	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	UNITS
Typical junction capacitance per element	C_J	55							pF
Typical thermal resistance	$R_{\theta JA}$ $R_{\theta JC}$	25 2.3							$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	- 55 ---- + 150							$^\circ\text{C}$
Storage temperature range	T_{STG}	- 55 ---- + 150							$^\circ\text{C}$

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	KBJ8A	KBJ8B	KBJ8D	KBJ8G	KBJ8J	KBJ8K	KBJ8M	UNITS
Maximum instantaneous forward voltage @4.0A @8.0A	V_F	1.0 1.1							V
Maximum reverse current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	I_R	5.0 0.5							μA mA

FIG1: Surge Forward Current Capability

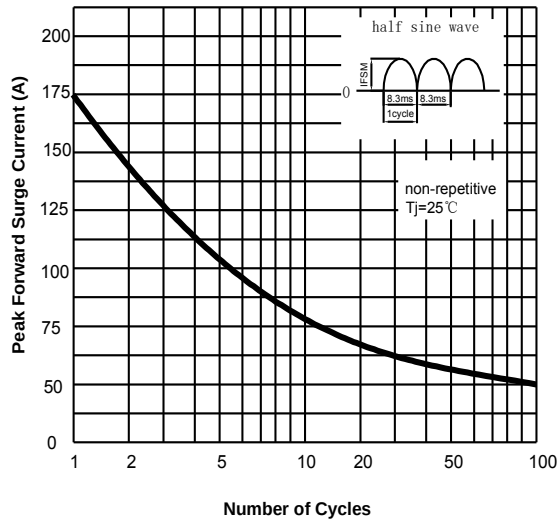


FIG.2 FORWARD DERATING CURVE

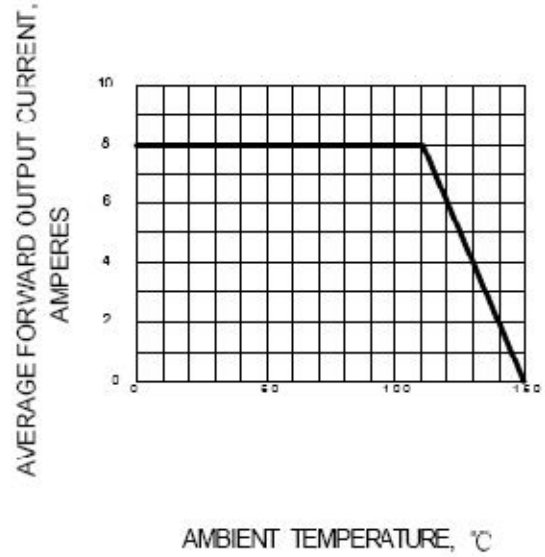


FIG.3 – TYPICAL FORWARD CHARACTERISTIC

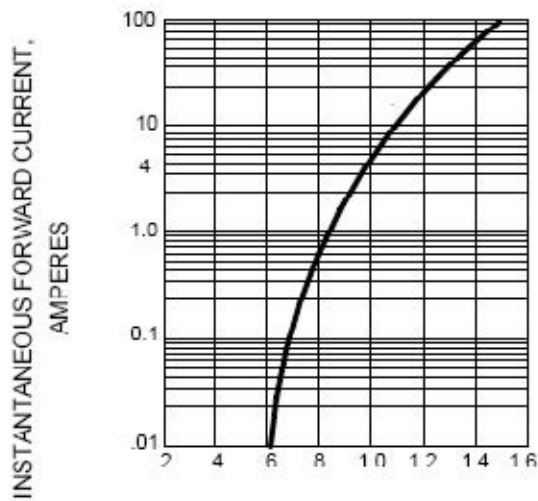
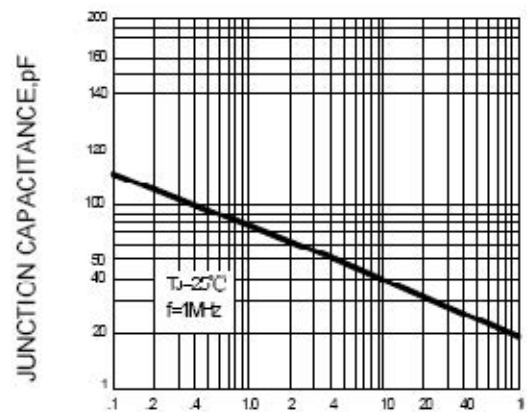


FIG.4 – TYPICAL JUNCTION CAPACITANCE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

REVERSE VOLTAGE, VOLTS

Device	Package	Shipping
KBJ8A--KBJ8M	KBJ4	300 Units/Box