

Features

1. Surge overload rating -135 amperes peak
2. Ideal for printed circuit board
3. Reliable low cost construction utilizing molded plastic technique
4. Plastic material has U/L lammability classification 94V-0

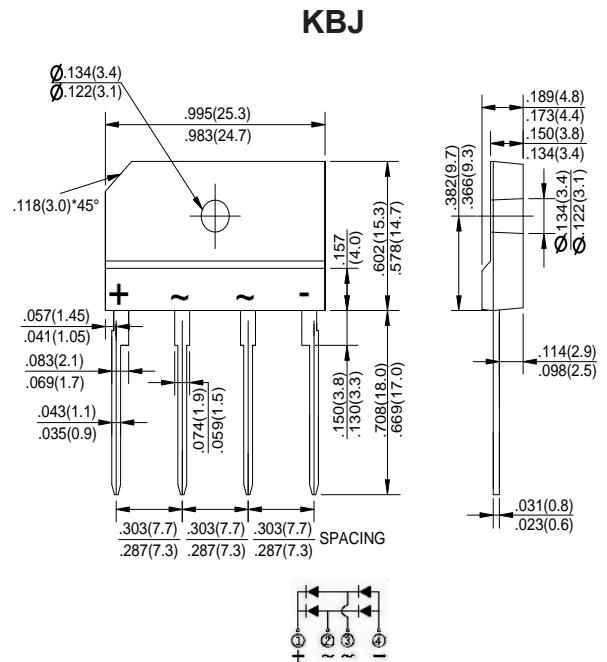
Mechanical Data

Case : JEDEC KBJ Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750,Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any



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, for capacitive load current derate by 20%.

Parameter	SYMBOLS	KBJ4005	KBJ401	KBJ402	KBJ404	KBJ406	KBJ408	BJ410	UNITS
Maximum repetitive 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 (with heatsink NOTE 2) Rectified current @ $T_c=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$					4.0			A
Peak forward surge current						2.4			
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}					135			A
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t					75.63			A^2s
Maximum forward voltage at 2.0A DC	V_F					1.0			V
Maximum forward voltage at 4.0A DC						1.1			
Maximum DC reverse current at rated DC blocking voltage	I_R					10			μA
$T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$						0.5			mA
Typical Junction Capacitance (Note 1)	C_J					45			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$					2.2			$^\circ\text{C/W}$
Operating junction temperature range	T_J					-55 to +150			$^\circ\text{C}$
storage temperature range	T_{STG}					-55 to +150			$^\circ\text{C}$

- NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Device mounted on 75mm*75mm*1.6mm cu plate heatsink.
3. The typical data above is for reference only.

Ratings And Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

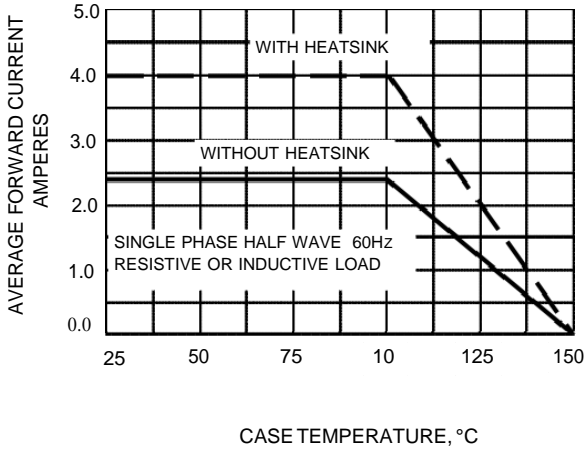


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

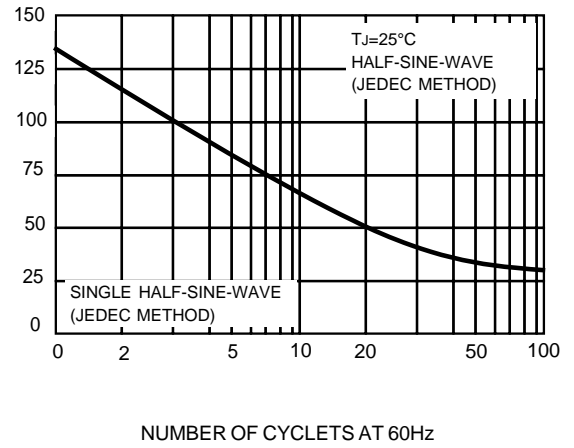


FIG.3-TYPICAL FORWARD CHARACTERISTICS

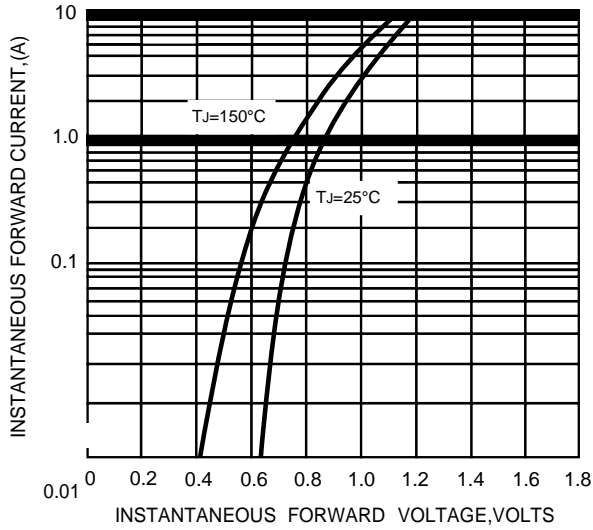


FIG.4-TYPICAL REVERSE CHARACTERISTICS

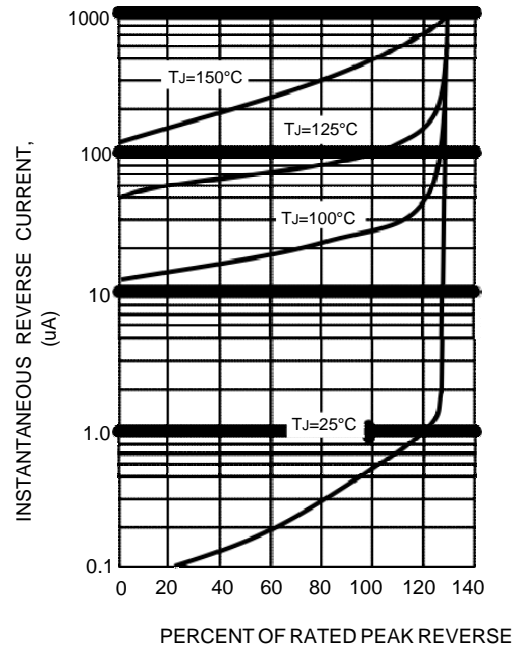


FIG.5-TYPICAL JUNCTION CAPACITANCE

