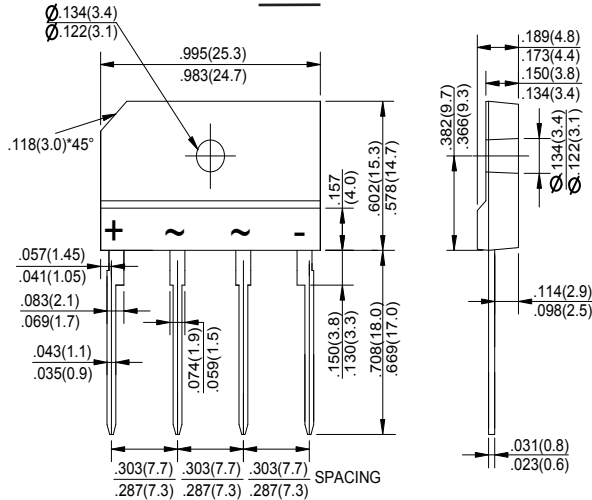


### KBJ



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Rating to 1000V PRV
- ◆ Ideal for printed circuit board
- ◆ Low forward voltage drop, high current capability
- ◆ Reliable low cost construction utilizing molded plastic
- ◆ The plastic material has U/L flammability classification 94V-0

### 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%.

MDD Catalog Number	SYMBOLS	KBJ 6005	KBJ 601	KBJ 602	KBJ 604	KBJ 606	KBJ 608	KBJ 610	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward (with heatsink NOTE 2) Rectified current @ $T_C=100^\circ\text{C}$ (without heatsink)	$I_{(AV)}$	6.0 2.8						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	170.0						Amps	
Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	120						$\text{A}^2\text{s}$	
Maximum forward voltage at 3.0A DC	$V_F$	1.0						Volts	
Maximum forward voltage at 6.0A DC	$V_F$	1.1						Volts	
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	10 500						$\mu\text{A}$ $\mu\text{A}$	
Typical Junction Capacitance (Note 1)	$C_J$	55						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	1.8						$^\circ\text{C}/\text{W}$	
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 (典型值仅供参考).

# RATINGS AND CHARACTERISTIC CURVES KBJ6005 THRU KBJ610

FIG.1-FORWARD CURRENT DERATING CURVE

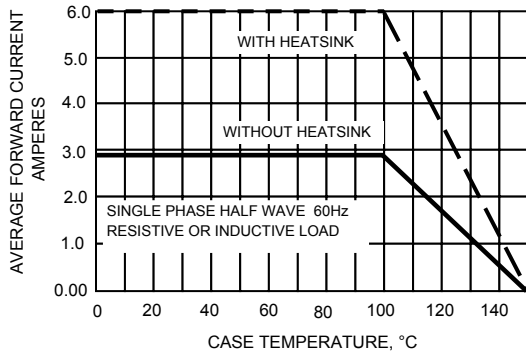


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

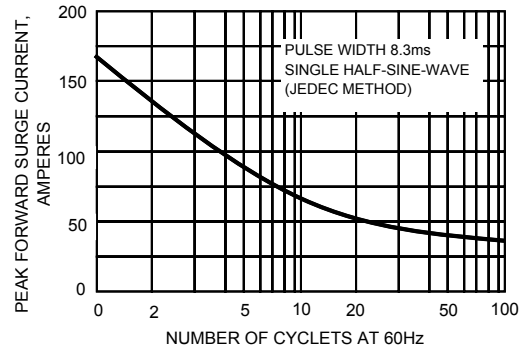


FIG.3-TYPICAL JUNCTION CAPACITANCE

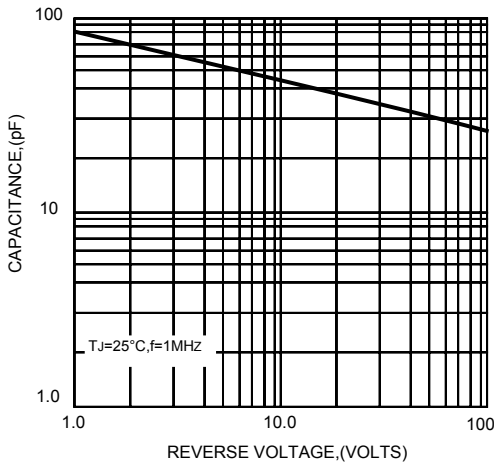


FIG.4-TYPICAL FORWARD CHARACTERISTICS

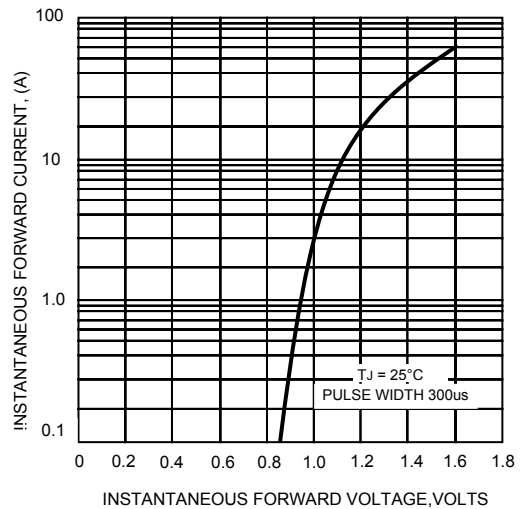
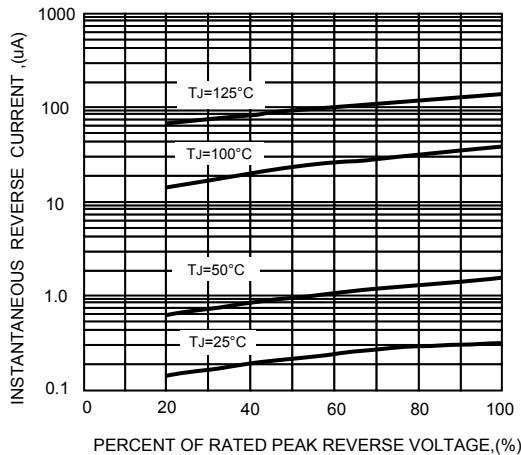


FIG.5-TYPICAL REVERSE CHARACTERISTICS



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

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