

KBJ6005 THRU KBJ610

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

FEATURES

- ◆ Rating to 1000V PRV.
- ◆ Ideal for printed circuit board.
- ◆ Reliable low cost construction utilizing molded plastic

Technique.

- ◆ The plastic material has UL flammability

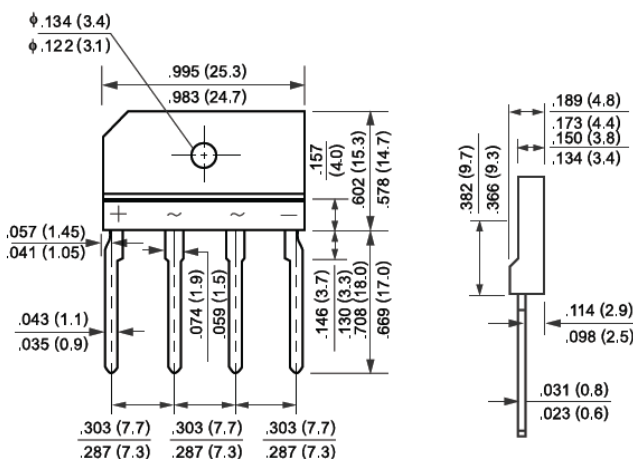
classification 94V-0.

- ◆ Electrically isolated base-1500 Volts.

Mechanical Data

- ◆ Polarity: Symbols molded on body.
- ◆ Weight: 0.15 ounces, 4.0 grams.
- ◆ Mounting position: Any.

KBJ



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	KBJ6005	KBJ601	KBJ602	KBJ604	KBJ606	KBJ608	KBJ610	UNIT
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(with heatsink Note 2) Rectified Current @ $T_C=110^{\circ}\text{C}$ (without heatsink)	$I_{(AV)}$	6.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD)	I_{FSM}	170							A
Maximum forward Voltage at 3.0A DC	V_F	1.0							V
Maximum DC Reverse Current @ $T_J=25^{\circ}\text{C}$ at Rated DC Blocking voltage @ $T_J=125^{\circ}\text{C}$	I_R	5.0 500							μA
I^2t Rating for fusing($t<8.3\text{ms}$)	I^2t	120							A^2S
Typical Junction Capacitance per element(Note 1)	C_J	80							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	1.5							$^{\circ}\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}\text{C}$

Note: 1. Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.

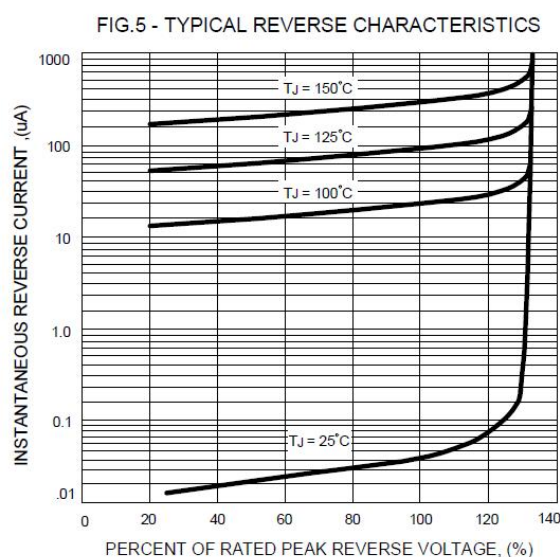
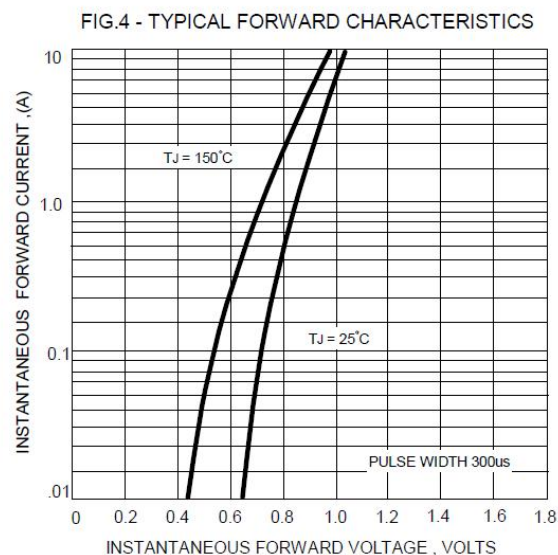
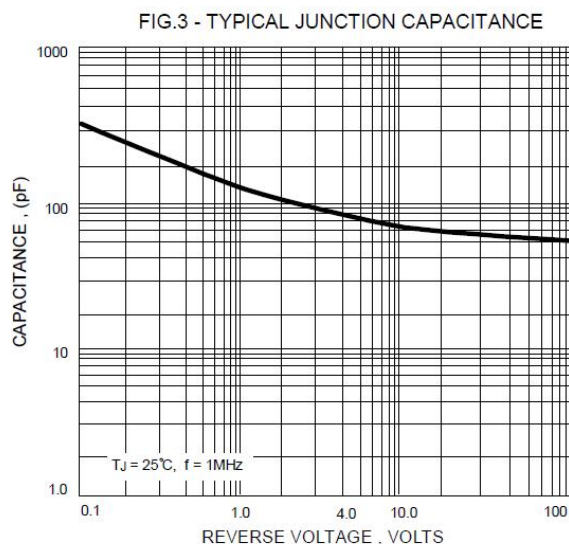
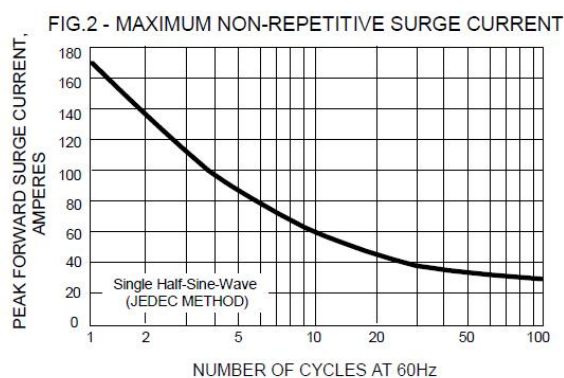
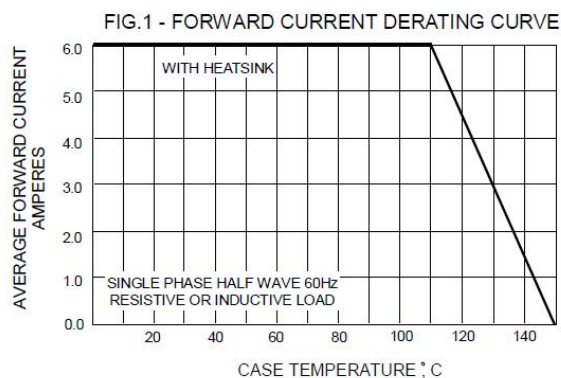
2. Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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RATING AND CHARACTERISTIC CURVES KBJ6005 THRU KBJ610



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.