

KBJ6005G~KBJ610G

BRIDGE RECTIFIERS

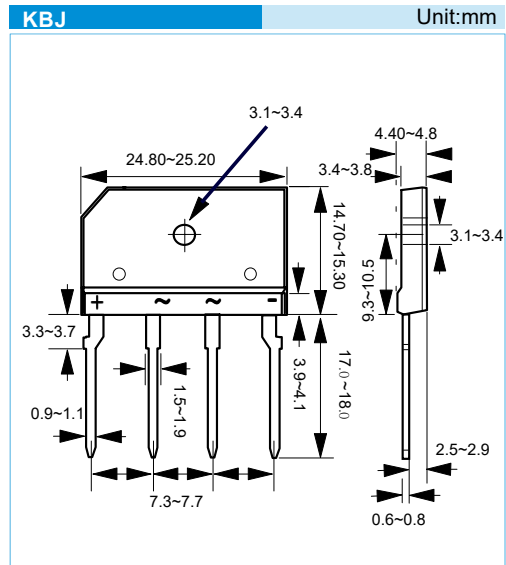
VOLTAGE 50 to 1000 Volt **CURRENT** 6 Ampere

FEATURES

- Glass passivated chip junction
- Low Reverse Leakage Current
- High Current Capability
- High reliability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	KBJ6005G	KBJ601G	KBJ602G	KBJ604G	KBJ606G	KBJ608G	KBJ610G	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 Current (see FIG.1)	$I_{F(AV)}$	6							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	170							A
Maximum Forward Voltage at 3 A	V_F	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5 500							μA
Thermal Resistance	$R_{\theta JC}$	1.5							$^{\circ}C / W$
I^2t Rating for fusing	I^2t	120							A^2S
Typical Junction Capacitance (Note1)	C_J	80							pF
Operating Junction Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt
2. Thermal resistance from junction to case per element. Unit mounted on 75 x 75 x 1.6mm aluminum plate heat sink.

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RATING AND CHARACTERISTIC CURVES

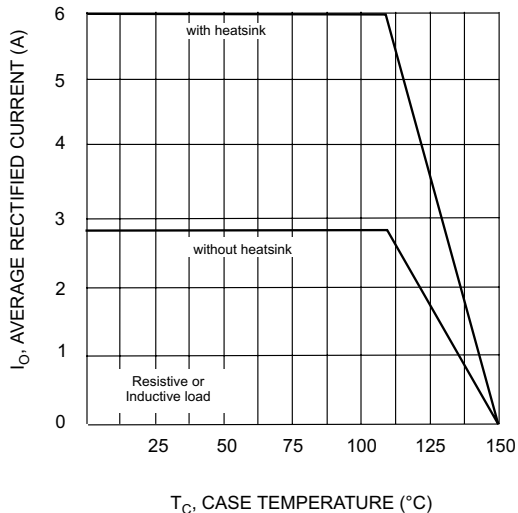


Fig. 1 Forward Current Derating Curve

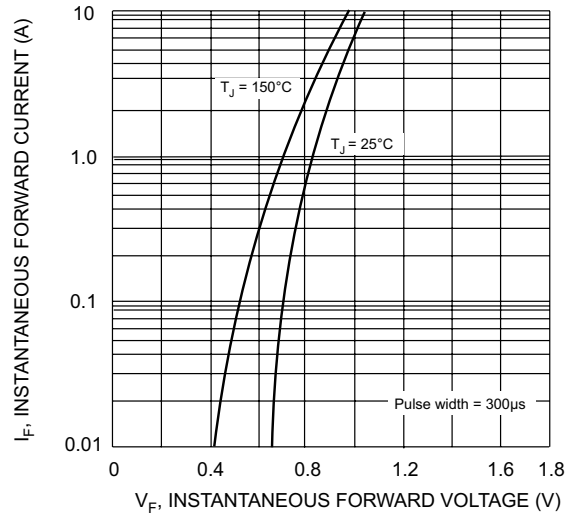


Fig. 2 Typical Forward Characteristics

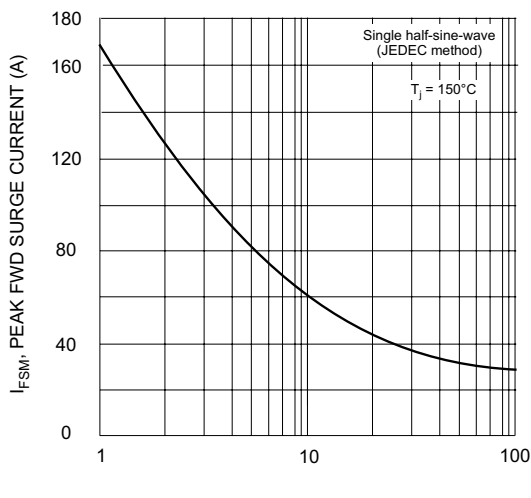


Fig. 3 Max Non-Repetitive Surge Current

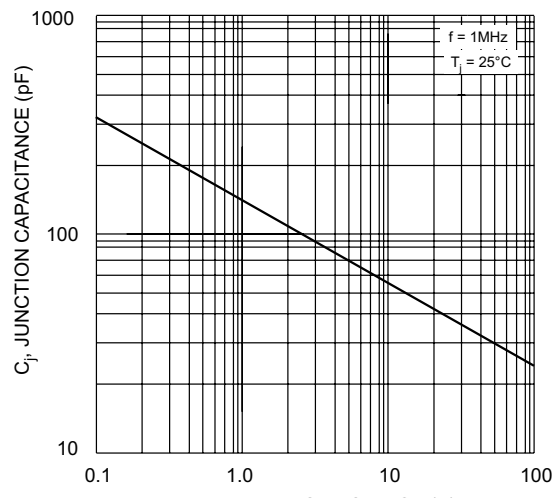


Fig. 4 Typical Junction Capacitance

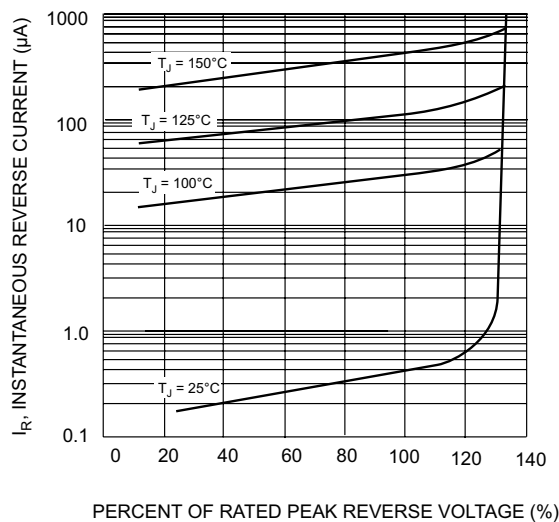


Fig. 5 Typical Reverse Characteristics

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ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
KBJ6005G~KBJ610G	KBJ	BULK	1000/BOX