

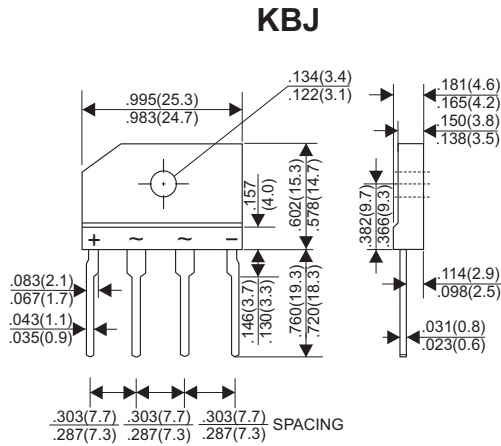


KBJ601 THRU KBJ607

SINGLE PHASE BRIDGE RECTIFIERS
Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Ampere

FEATURES

- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting: Hole thru for #6 screw
- * Mounting position: Any
- * Weight: 4.8 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER	KBJ601	KBJ602	KBJ603	KBJ604	KBJ605	KBJ606	KBJ607	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward (with heatsink Note 1)								6.0	
Rectified Current at Tc=110°C (Without heatsink)								2.8	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								170	A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.								1.0	V
Maximum DC Reverse Current Ta=25°C								5.0	μA
at Rated DC Blocking Voltage Ta=100°C								500	μA
Typical Thermal Resistance RθJC (Note 2)								3.4	°C/W
Typical Thermal Resistance RθJL (Note 3)								5.0	°C/W
Operating Temperature Range, Tj								-55 — +150	°C
Storage Temperature Range, Tstg								-55 — +150	°C

NOTES

1. Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.
2. Thermal Resistance from Junction to Case with device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.
3. Thermal Resistance from Junction to Lead without Heatsink.

RATING AND CHARACTERISTIC CURVES (KBJ601 THRU KBJ607)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

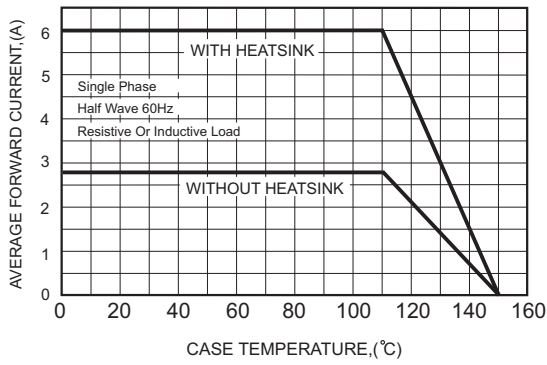


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

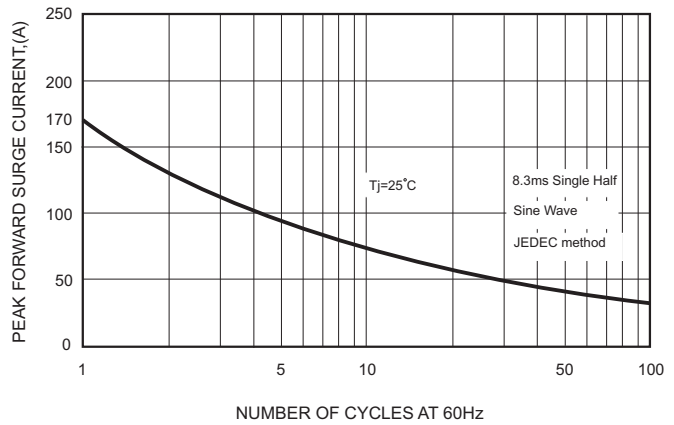


FIG.3-TYPICAL FORWARD CHARACTERISTICS

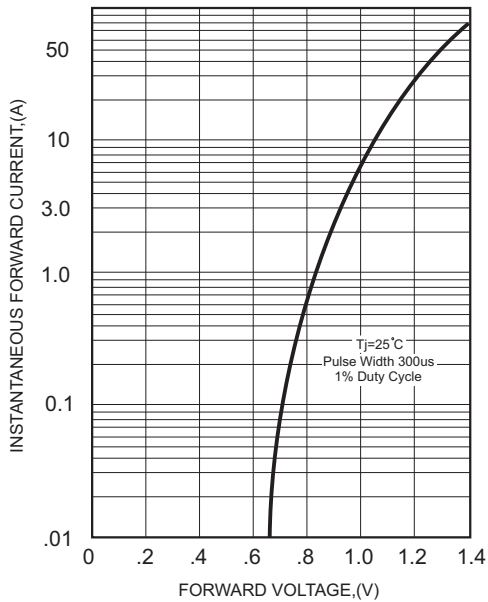


FIG.4-TYPICAL REVERSE CHARACTERISTICS

