

GW

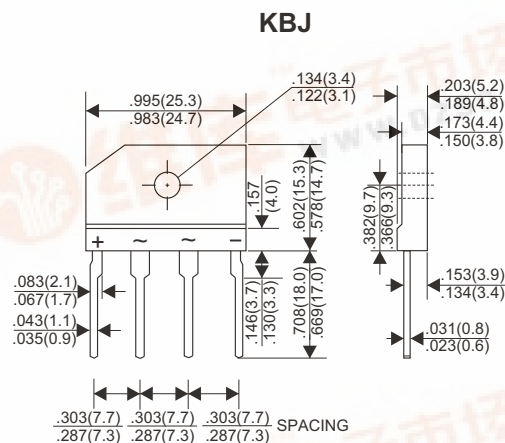
SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS



- * Ideal for printed circuit board
- * Low forward voltage
- * Low leakage current
- * Mounting position: Any

50 to 1000 Volts

6.0 Amperes



Dimensions in inches and (millimeters)

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
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								A
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.								170
Maximum DC Reverse Current Ta=25°C								1.0
at Rated DC Blocking Voltage Ta=100°C								5.0
Typical Thermal Resistance R _{JC} (Note 2)								500
Typical Thermal Resistance R _{JL} (Note 3)								3.4
Operating Temperature Range, T _J								°C/W
Storage Temperature Range, T _{STG}								°C/W
								-55 — +150
								°C
								-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

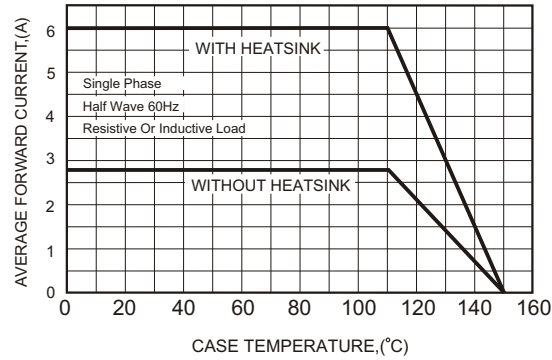


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

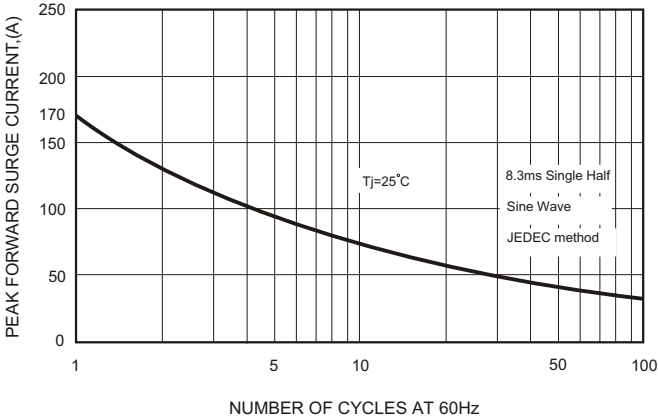


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

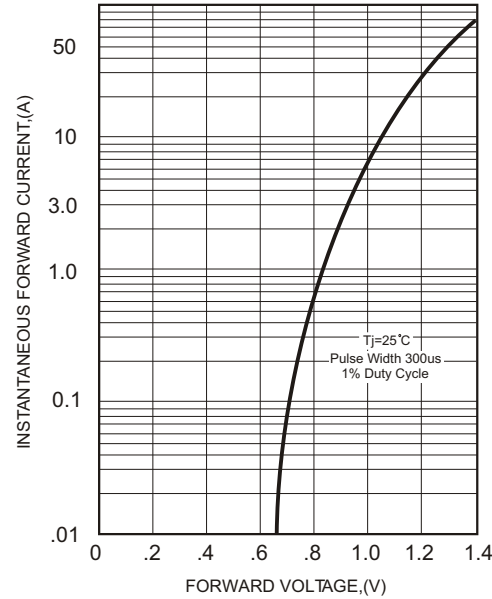


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

