GBJ601 THRU GBJ607

SINGLE PHASE 6.0 AMP BRIDGE RECTIFIERS

FEATURES

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

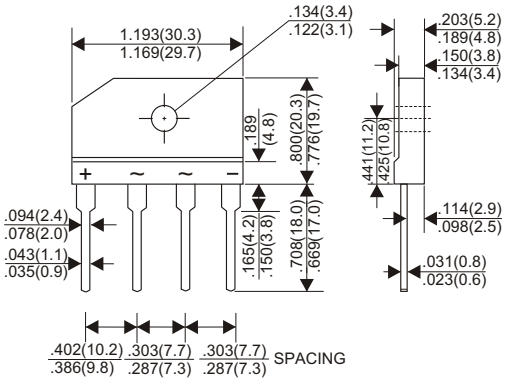
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

6.0 Amperes

GBJ



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBJ601	GBJ602	GBJ603	GBJ604	GBJ605	GBJ606	GBJ607	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 2)				6.0				A
.375"(9.5mm) Lead Length at Tc=110˚C (With 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 R_{JC} (Note 1)				3.4				˚C/W
Typical Thermal Resistance R_{JL} (Note 2)				5.0				˚C/W
Operating Temperature Range, T_J				-55 — +150				˚C
Storage Temperature Range, T_{STG}				-55 — +150				˚C

NOTES:

1. Thermal Resistance from Junction to Case with device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

2. Thermal Resistance from Junction to Lead without Heatsink.

RATING AND CHARACTERISTIC CURVES (GBJ601 THRU GBJ607)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

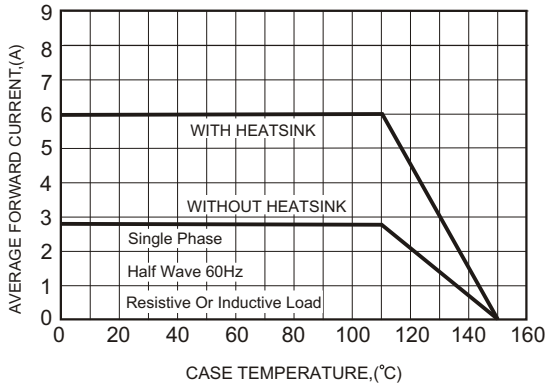


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

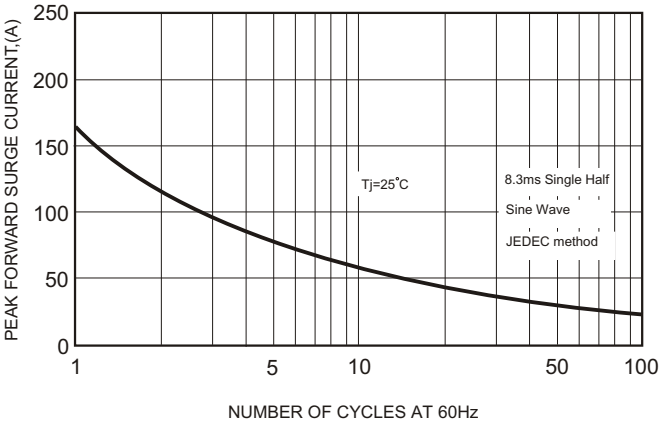


FIG.3-TYPICAL FORWARD CHARACTERISTICS

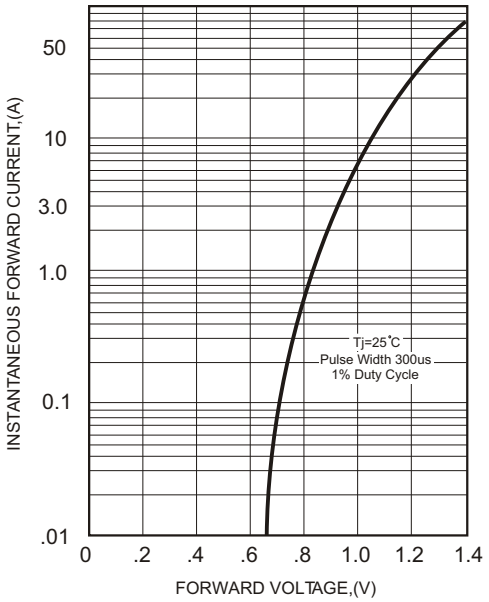


FIG.4-TYPICAL REVERSE CHARACTERISTICS