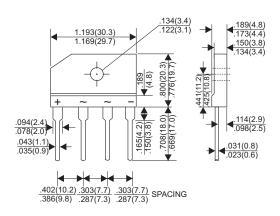


GBJ601 THRU GBJ607

SINGLE PHASE BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Ampere

GBJ



Dimensions in inches and (millimeters)

FEATURES

- * Glass Passivated Die Construction
- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless 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		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)		6.0						
.375"(9.5mm) Lead Length at Tc=110°C (With heatsink)		2.8						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		170						
Maximum Forward Voltage Drop per Bridge Element at 3.0A D.C.		1.0						
Maximum DC Reverse Current Ta=25°C		5.0				μА		
at Rated DC Blocking Voltage Ta=100°C	:	500				μA		
Typical Thermal Resistance Rθ _J c (Note 1)		3.4						
Typical Thermal Resistance Rθл (Note 2)		5.0						
Operating Temperature Range, TJ		-55 — + 150						
Storage Temperature Range, Tsтс		-55 —+150						

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)

