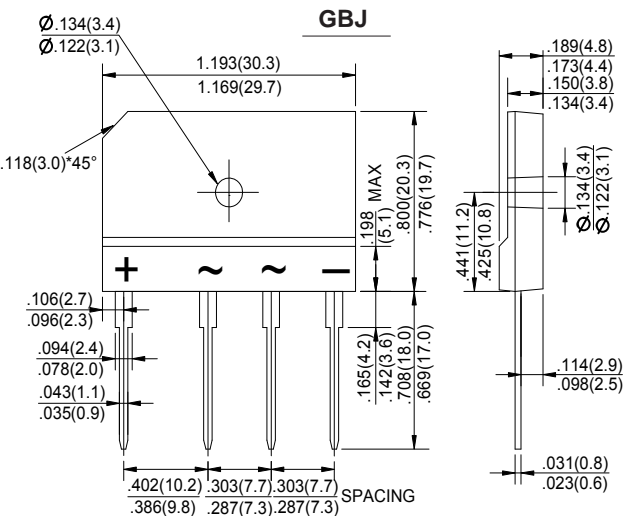




# GBJ15005 THRU GBJ1510

## SILICON BRIDGE RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 15.0 Amperes



Dimensions in inches and (millimeters)

### FEATURES

- ◆ Rating to 1000V PRV
- ◆ Ideal for printed circuit board
- ◆ Low forward voltage drop, high current capability
- ◆ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◆ The plastic material has U/L flammability classification 94V-0

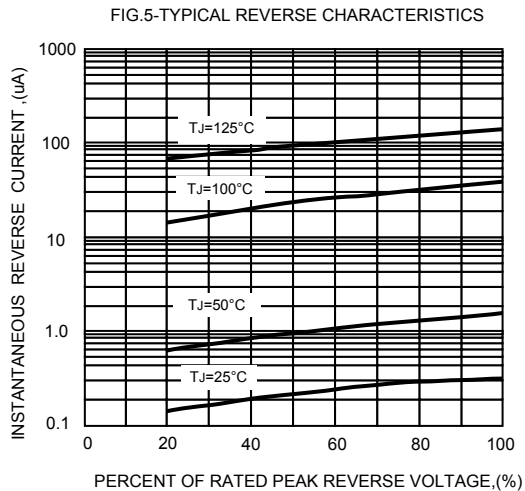
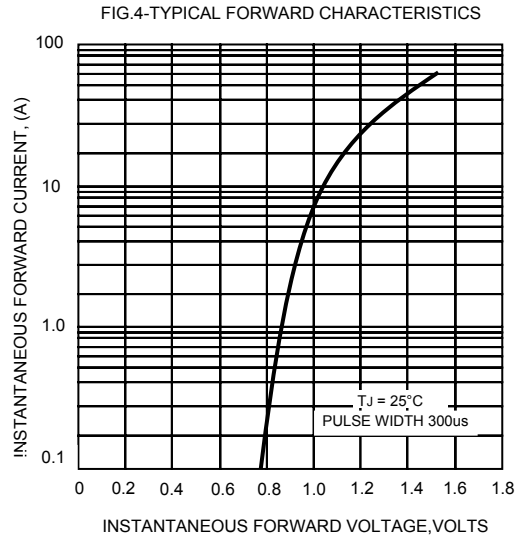
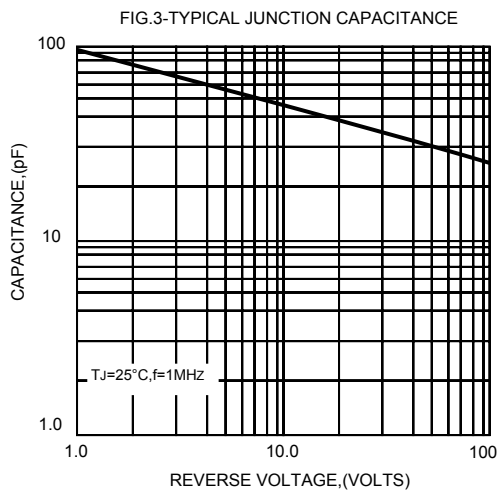
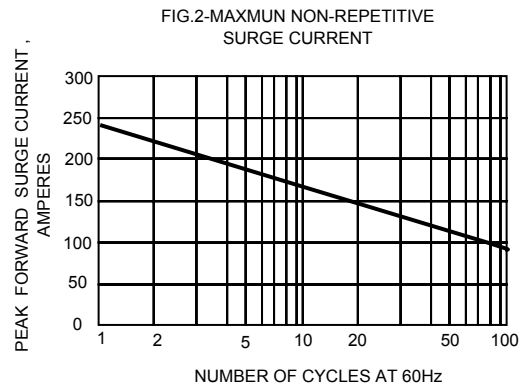
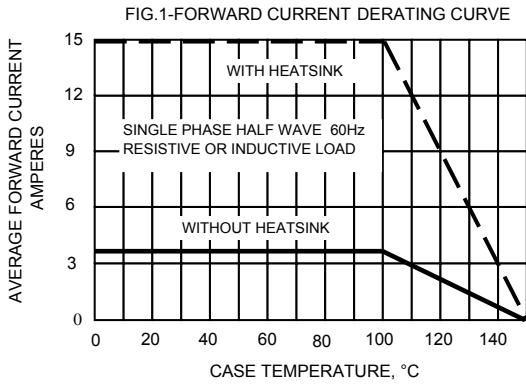
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TWGMC Catalog Number	SYMBOLS	GBJ 15005	GBJ 1501	GBJ 1502	GBJ 1504	GBJ 1506	GBJ 1508	GBJ 1510	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward (with heatsink Note 2) Rectified Current @ $T_C = 100^\circ C$ (without heatsink)	$I_{(AV)}$	15.0 3.7						Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	240						Amps	
Maximum instantaneous forward voltage drop per bridge element at 7.5A	$V_F$	1.0						Volts	
Maximum DC reverse current $T_J = 25^\circ C$ at rated DC blocking voltage $T_J = 125^\circ C$	$I_R$	10 0.5						$\mu A$ mA	
It Rating for Fusing ( $t < 8.3ms$ )	$I^2 t$	240						$A^2 s$	
Typical Junction Capacitance (Note 1)	$C_J$	60						pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	0.8						$^\circ C/W$	
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 4.0V DC.  
2. Device mounted on 75mm\*75mm\*1.6mm Cu plate heatsink.  
3. The typical data above is for reference only (典型值仅供参考).

# RATINGS AND CHARACTERISTIC CURVES GBJ15005 THRU GBJ1510



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!