



GBJE2560

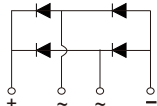
Low V_F Bridge Rectifiers

Features

- ★ Ideal for printed circuit boards
- ★ High surge current capability
- ★ Low forward voltage drop
- ★ Low reverse leakage current

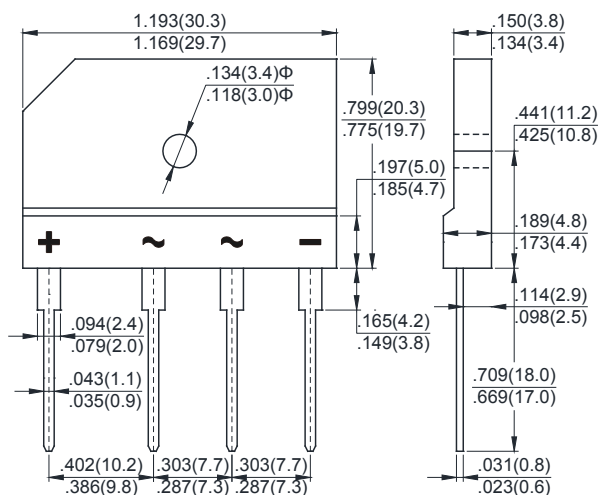
Mechanical Data

- ★ Case: Molded plastic, GBJ
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-202, method 208
- ★ Polarity: As marked on body



**Voltage 600 Volt
Current 25 Ampere**

GBJ



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward rectified output current @ $T_C=118.7^\circ\text{C}$	$I_{F(AV)}$	25	A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	400	A
Rating for fusing ($t < 8.3$ ms)	I^2t	664	A^2s
Maximum instantaneous forward drop per diode @ $I_F=12.5\text{A}$	V_F	0.92	V
Typical instantaneous forward drop per diode @ $I_F=12.5\text{A}$	V_F	0.87	V
Maximum DC reverse current at @ $T_A=25^\circ\text{C}$ rated DC blocking voltage per diode @ $T_A=125^\circ\text{C}$	I_R	10 350	μA
Typical junction capacitance (Note 1)	C_J	240	pF
Maximum thermal resistance junction to case	$R_{\theta JC}$	1	$^\circ\text{C}/\text{W}$
Operating junction and storage temperature range	T_J, T_{STG}	-50 to +150	$^\circ\text{C}$

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

RATINGS AND CHARACTERISTICS CURVES GBJE2560

Fig.1 - Forward Current Derating Curve

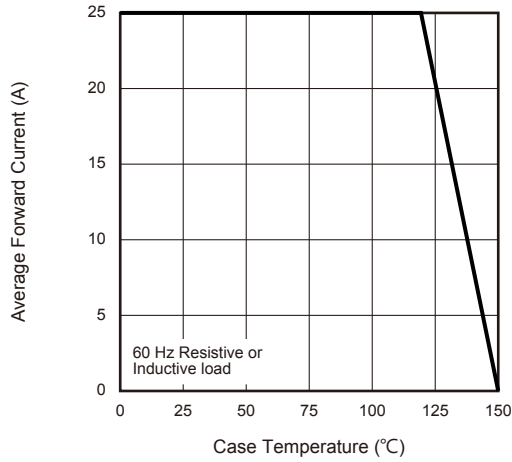


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

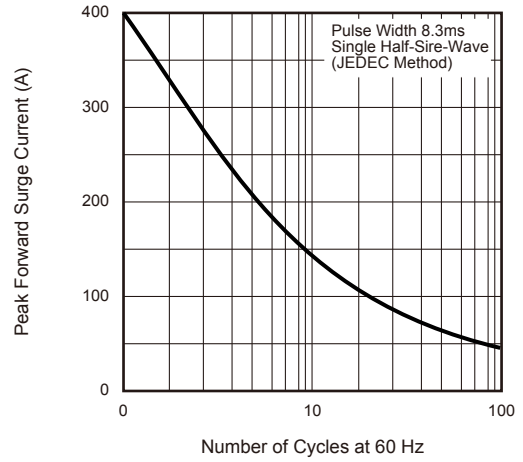


Fig.3 - Typical Instantaneous Forward Characteristics

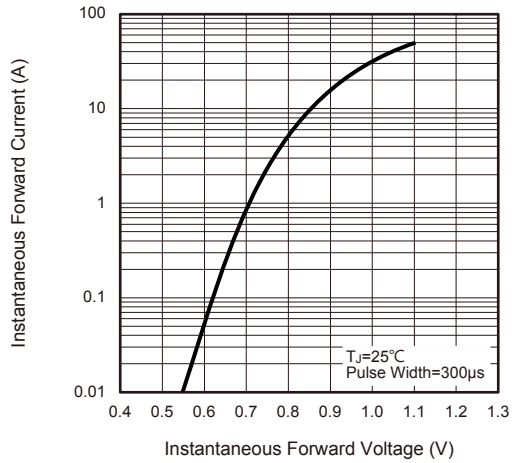


Fig.4 - Typical Reverse Leakage Characteristics

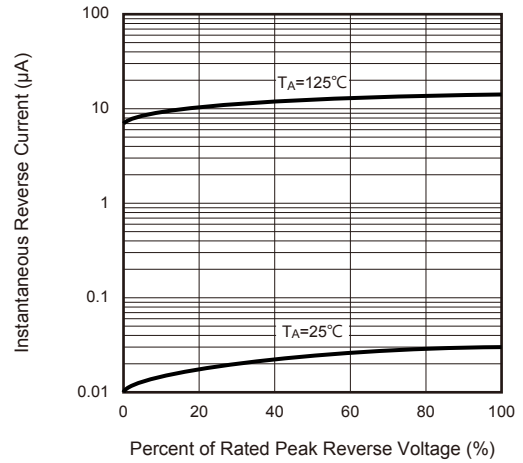


Fig.5 - Typical Junction Capacitance

