

## DATA SHEET

### 6.0A BRIDGE RECTIFIER

**VOLTAGE** 1000 Volts

**CURRENT** 6.0Amperes

**GBL**

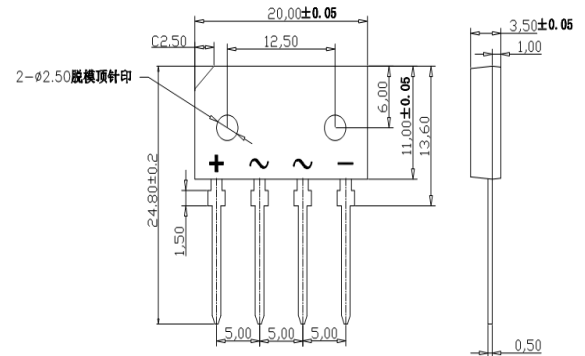
**Unit:inch/mm**

#### FEATURES

- Low Forward Voltage.
- Low reverse leakage
- High forward surge capability
- Surge overload rating: 150 Amperes peak

#### MECHANICAL DATA

- Case: Molded Plastic
- Polarity: Symbols molded or marked on body
- Mounting position : Any



In compliance with EU RoHs 2002/95/EC directives

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	GBL610	Unit
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	1000	V
DC Blocking Voltage	VR		
Maximum RMS Voltage	VRMS	700	V
Maximum Average Forward Rectified Current	I (AV)	6	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfwave, single phase, 60Hz)	IFSM	150	A
Maximum forward voltage	VF	1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10	uA
Operating Temperature Range	TJ	-55to+150	°C
Storage Temperature Range	TSTG	-55to+150	°C
Typical thermal resistance	R θ JA	22	°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	Cj	80	PF

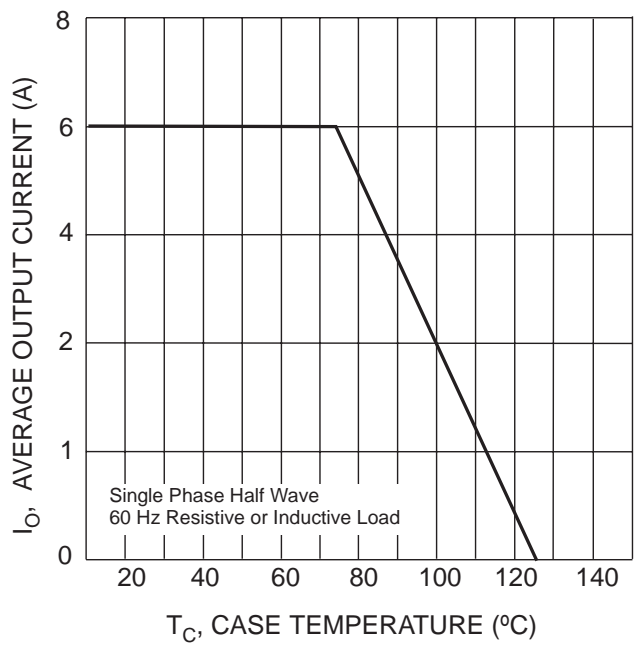


Fig. 1 Forward Current Derating Curve

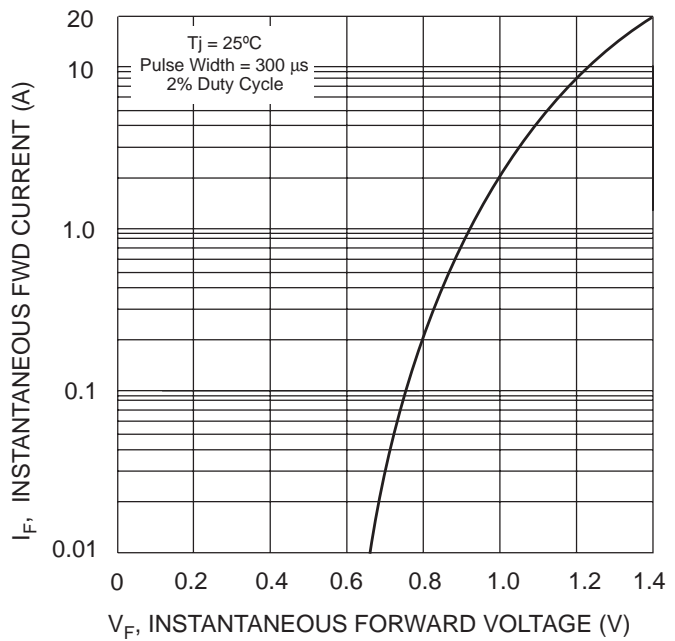


Fig. 2 Typical Forward Characteristics, per element

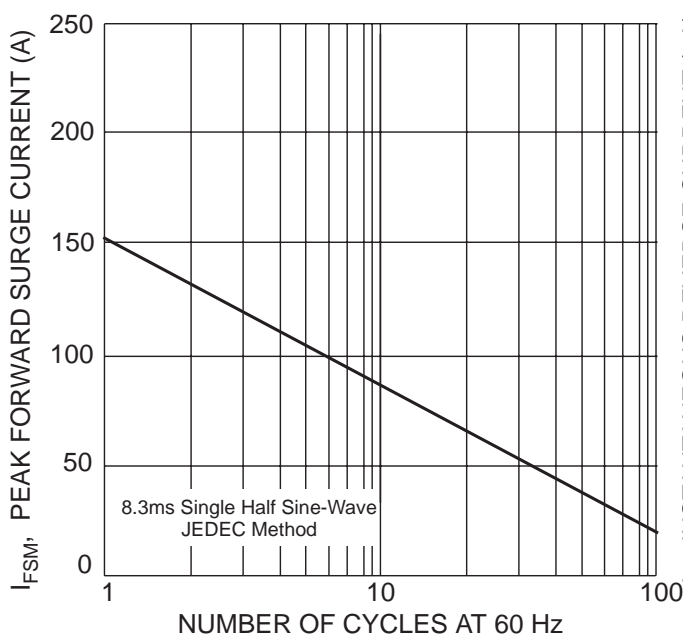


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

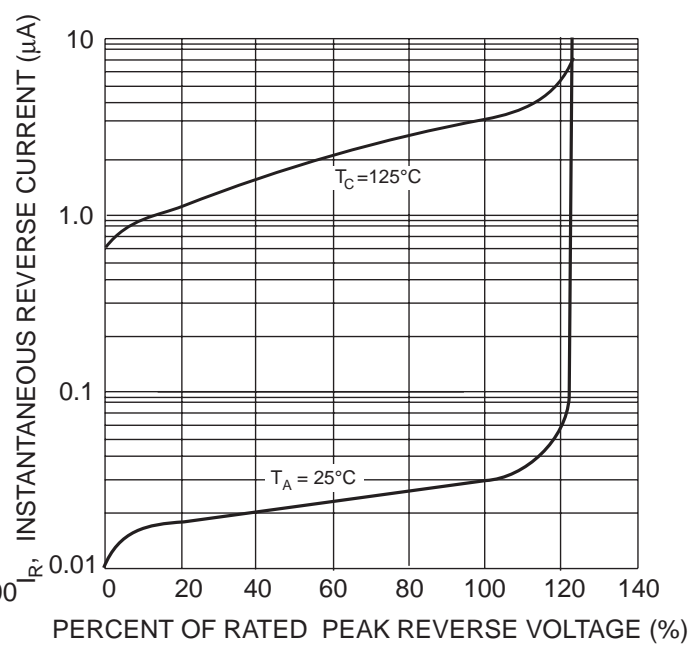


Fig. 4 Typical Reverse Characteristics, per element