CURRENT 6.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

GBL6005 THRU GBL610

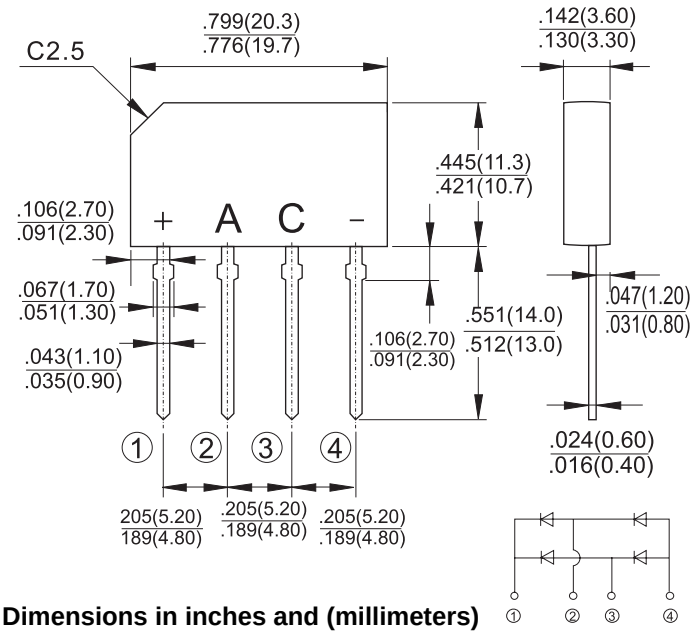
Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- Glass passivated chip junction
- Ideal for printed circuit board
- High case dielectric strength
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Typical IR less than 0.1μA
- High surge current capability
- High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths.

Mechanical Data

- Case: Molded plastic body.
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- Weight: 0. 06 ounce, 1.7 grams
- Mounting position: Any

GBL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYMBOL	GBL 6005	GBL 601	GBL 602	GBL 604	GBL 606	GBL 608	GBL 610	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note2) Rectified Current @ T_C=100°C(without heatsink)	$I_{F(AV)}$	6.0 2.6							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	175							A
Maximum Forward Voltage @ 6.0A DC Drop per element @ 3.0A DC	V_F	1.1 1.0							V
Maximum DC Reverse Current @T_J =25°C at rated DC blocking voltage @T_J =125°C	I_R	5.0 500.0							μA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	127							A^2Sec
Typical Junction Capacitance (Note 1)	C_J	55							pF
Typical Thermal Resistance (Note 2)	$R_{(JC)}$	4.2							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operating Junction Temperature	T_J	-55 to +150							°C

Note:
1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2.Device mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink.

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VOLTAGE RANG 50 to 1000 Volts

GBL6005 THRU GBL610

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

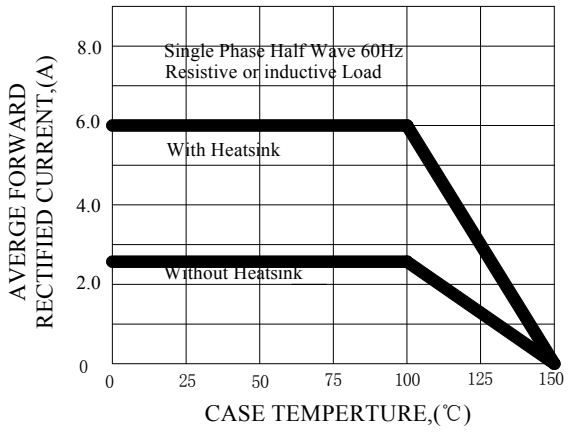

FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

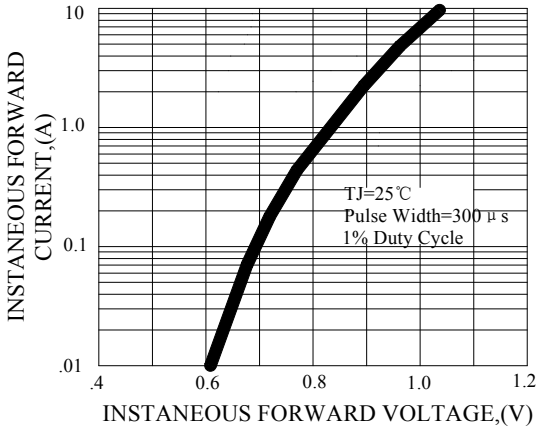

FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

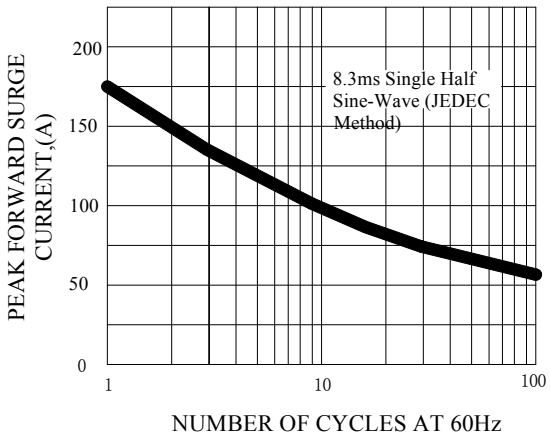

FIG.4-TYPIAL JUNCTION CAPAOTANCE

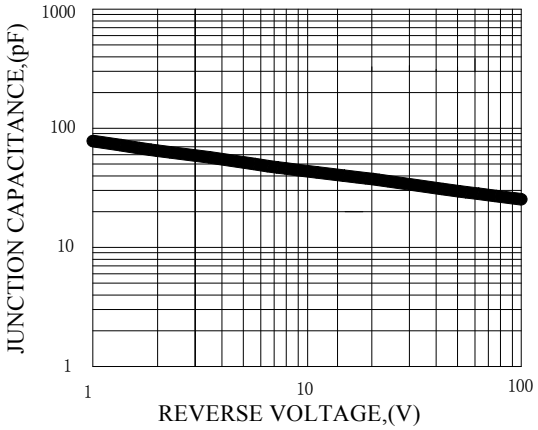

FIG.5-TYPICAL REVERSE CHARACTERISTICS