

## B05SGS Thru B10SGS

**Glass Passivated Type**  
**Reverse Voltage: 50 - 1000 Volts**  
**Forward Current: 0.5 Amp**

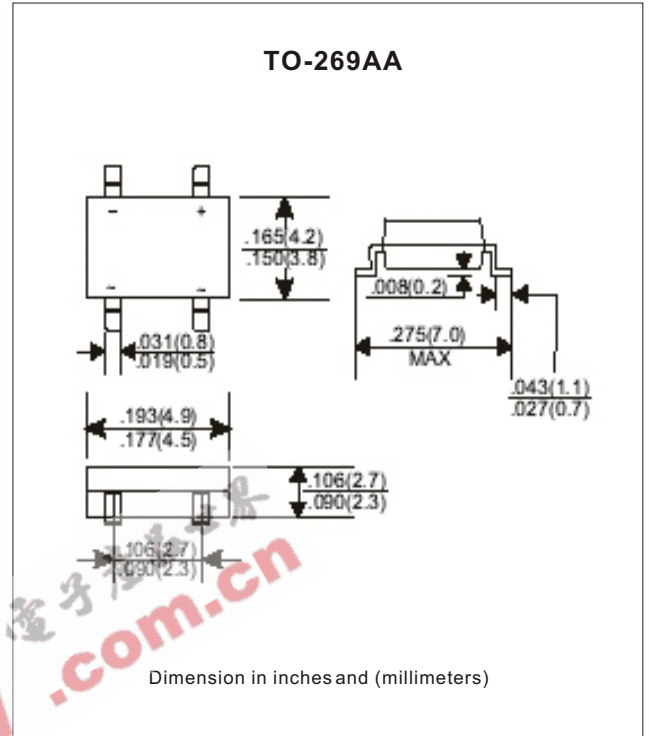


### Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Built-in strain relief
- Glas passivated junction

### Mechanical data

- Case: JEDEC DO-269AA molded plastic
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Marked on body
- Mounting position: Any
- Approx. Weight: 0.22 gram



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	B05SGS	B1SGS	B2SGS	B4SGS	B6SGS	B8SGS	B10SGS	Unit
Max. Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Max. RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load ( JEDEC method)	IFSM	30							A
Max. Average Forward Current	Io	0.5							A
Max. Instantaneous Forward Current at 0.5 A	VF	1.0							V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=125°C	IR	5 500							uA
Max. Thermal Resistance (Note 1)	RθJA	85							°C/W
Operating Junction Temperature	Tj	-55 to +150							°C
Storage Temperature	TSTG	-55 to +150							°C

Note 1: Thermal resistance from junction to ambient.

## Rating and Characteristic Curves (B05SGS thru B10SGS)

Fig. 1 - Reverse Characteristics

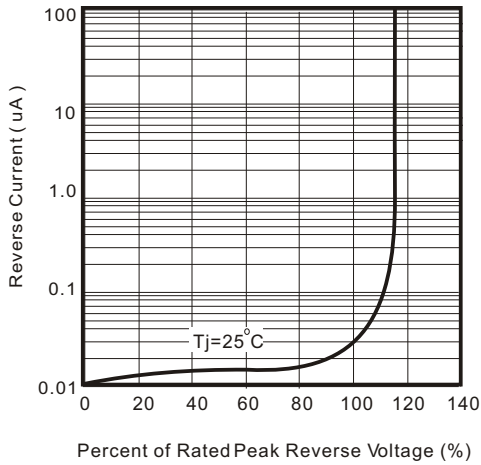


Fig.2 - Forward Characteristics

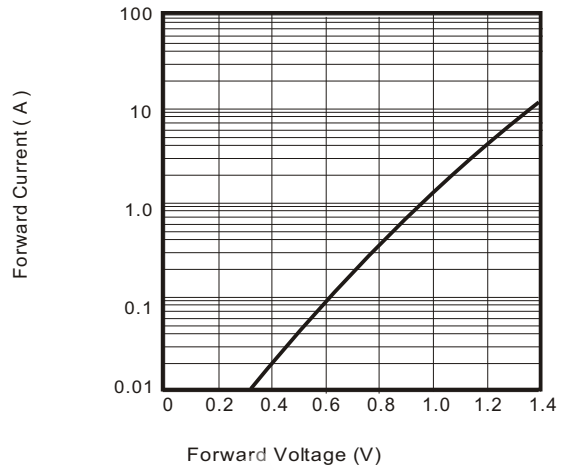


Fig. 3 - Non Repetitive Forward Surge Current

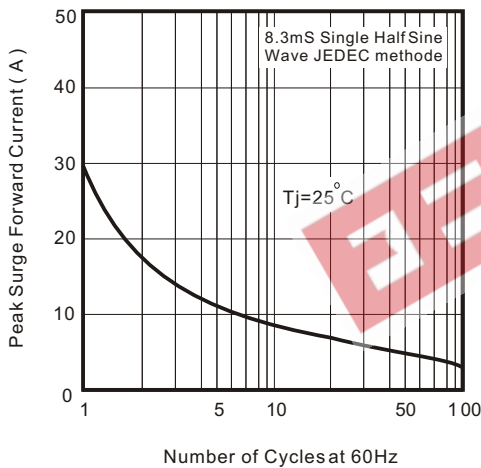


Fig. 4 - Current Derating Curve

