

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

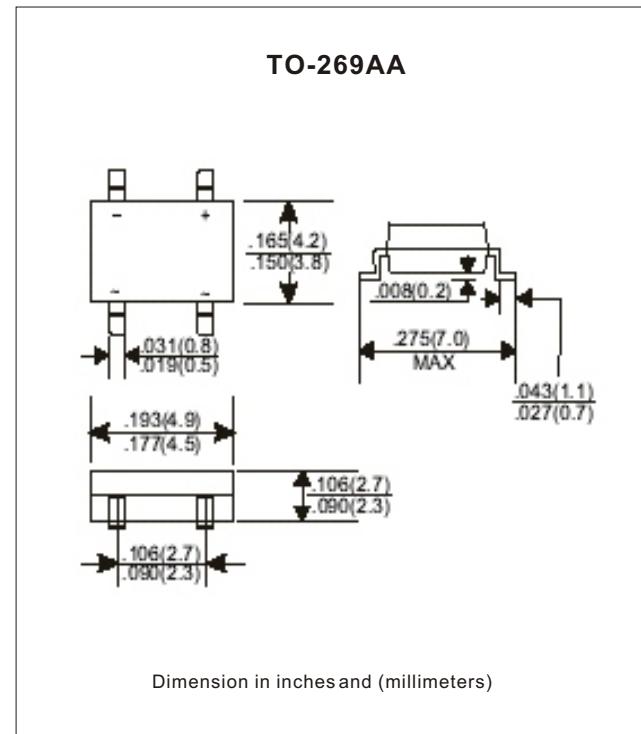
Case: JEDEC DO-269AA molded plastic

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	V _{RRM}	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Max. RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single halfsine-wave superimposed on rate load (JEDEC method)	I _{FSM}					30			A
Max. Average Forward Current	I _o					0.5			A
Max. Instantaneous Forward Current at 0.5 A	V _F					1.0			V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=125°C	I _R					5 500			uA
Max. Thermal Resistance (Note 1)	R _{θJA}					85			°C/W
Operating Junction Temperature	T _j					-55 to +150			°C
Storage Temperature	T _{STG}					-55 to +150			°C

Note 1: Thermal resistance from junction to ambient.

SMD General Purpose Bridge Rectifier

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Rating and Characteristic Curves (B05SGS thru B10SGS)

Fig. 1 - Reverse Characteristics

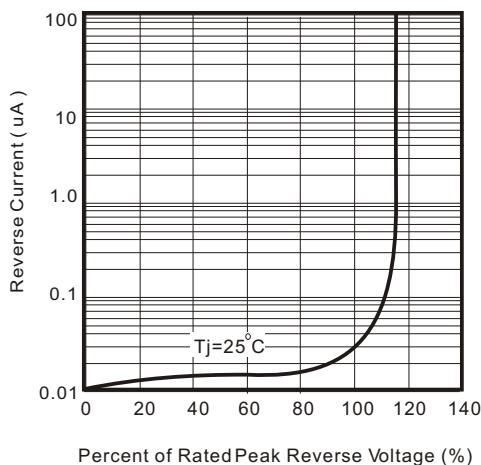


Fig.2 - Forward Characteristics

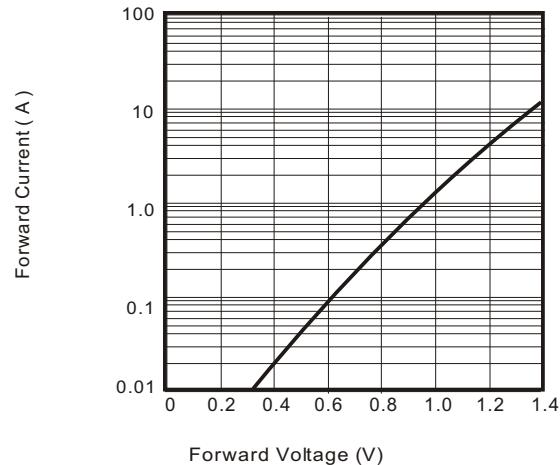


Fig. 3 - Non Repetitive Forward Surge Current

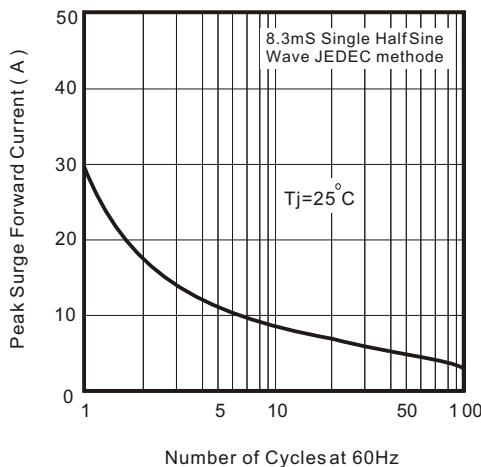


Fig. 4 - Current Derating Curve

