

ABS105S THRU ABS10S

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

Features

- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

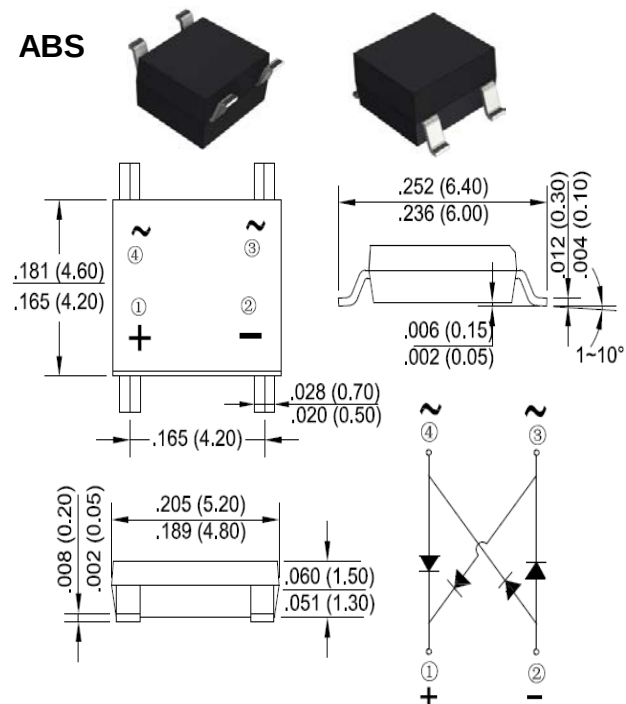
Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.

ABS



Package Outline Dimensions in Inches (Millimeters)

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%.

Characteristics	Symbol	ABS105S	ABS11S	ABS12S	ABS14S	ABS16S	ABS18S	ABS10S	Unit 单位
Maximum Repetitive 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 Rectified Current @T _A =40 °C (Note1)	I <sub(av)< sub=""></sub(av)<>	2.0							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	60							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	14.9							A ² s
Peak Forward Voltage per Diode at 2A DC	V _F	1.1							V
Maximum DC Reverse Current at Rated @T _J =25°C DC Blocking Voltage per Diode @T _J =125°C	I _R	5.0 500							μA
Typical Thermal Resistance Junction to Ambient	R _{θJA}	80							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Notes: 1. Mounted on P.C. board.

2. The typical data above is for reference only

Fig. 1 - Forward Current Derating Curve

图1 正向电流降额曲线

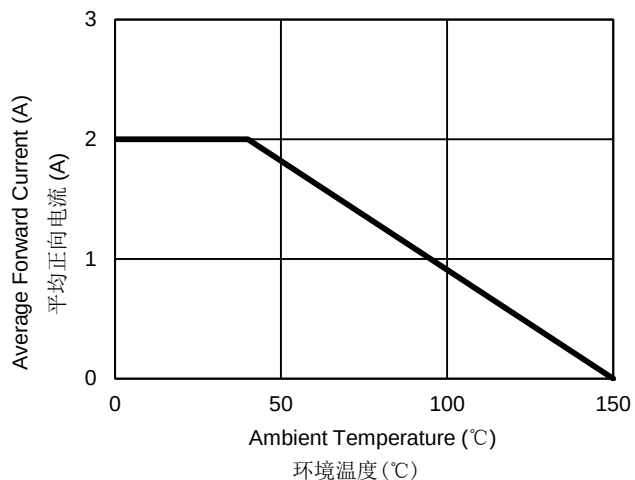


Fig. 2 - Maximum Non-Repetitive Surge Current

图2 最大不重复正向浪涌曲线

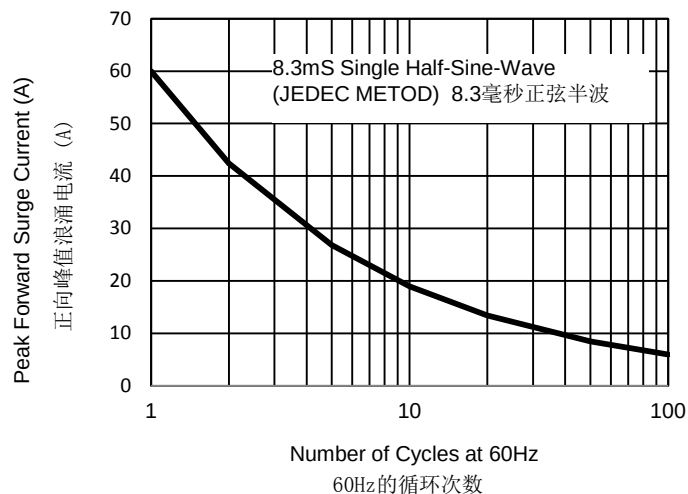


Fig. 3 - Typical Reverse Characteristics

图3 典型的反向特性

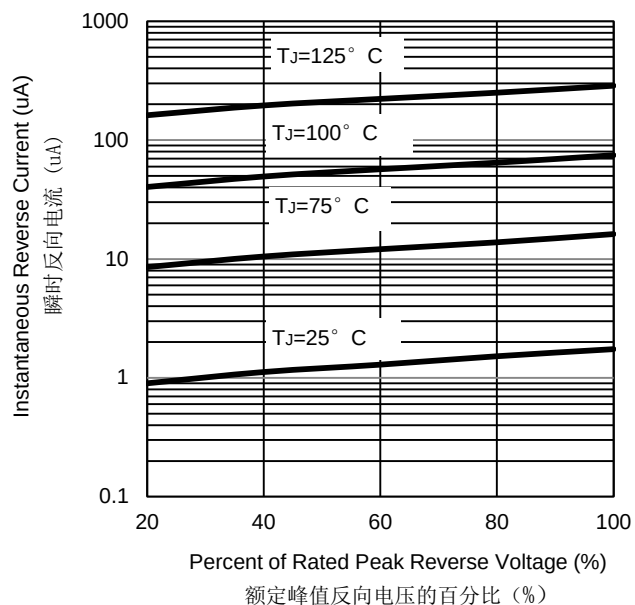


Fig. 4 - Typical Forward Characteristics

图4 典型的正向特性

