REVERSE VOLTAGE 50V TO 1000V RECTIFIED CURRENT 1.0A

DESCRIPTION

The DB101S~DB107S are available in DBS package.

ORDERING INFORMATION

Package Type	Part Number				
DBS	DB101S				
	DB102S				
	DB103S				
	DB104S				
	DB105S				
	DB106S				
	DB107S				
Note	SPQ: 1,500pcs/Reel				
AiT provides all RoHS Compliant Products					

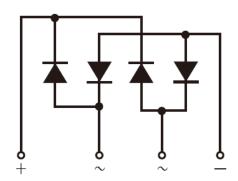
FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 250*/10 seconds / 0.375"(9.5mm) led length at 5 lbs., (2.3kg)tension
- Small size, simple installation Leads solderable per MIL-STD-202, Method 208
- High surge current capability
- Available in DBS package

MECHANICAL DATA

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any
- Weight: 0.02 ounce, 0.4 grams

PIN DESCRIPTION



REVERSE VOLTAGE 50V TO 1000V RECTIFIED CURRENT 1.0A

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Paramete	er	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Repetitive	e Peak	V	5 0	100	200	400	600	800	1000	V
Reverse Voltage		V_{RRM}	50	100	200	400	000	000	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	٧
Maximum Average Forward		1	4.0							^
Rectified Current at	T _A =40°C	I _{F(AV)}	1.0							Α
Peak Forward Surge	e Current									
8.3ms Single Half S	ns Single Half Sine-Wave		50							А
Superimposed on R	erimposed on Rated Load									
(JEDEC Method)										
Maximum instantaneous			1.1							V
forward voltage Drop per		V_{F}								
Bridge Element at 1.0A										
Maximum DC										
Reverse Current	T _A =25°C	,	10 500							μΑ
at Rated DC		I _R								
Blocking Voltage	T _A =125°C									
Operating Temperature Range		Тл	-55~150							°C
Storage Temperature Range		T _{STG}	-55~150							°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

NOTES: DBS for surface mount package.

REVERSE VOLTAGE 50V TO 1000V RECTIFIED CURRENT 1.0A

TYPICAL PERFORMANCE CHARACTERISTICS

Figure 1. Maximum Derating Curve for Output **Rectified Current**

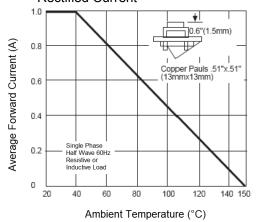
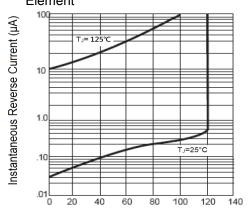


Figure 3. Typical Reverse Characteristics Per Bridge Element



Percent of Peak Reverse Voltage (%)

Figure 5. Typical Junction Capacitance Per Bridge

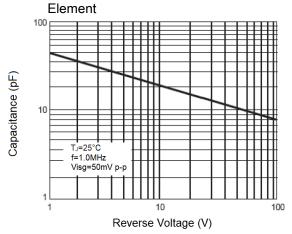


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

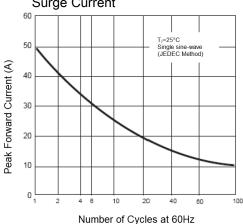
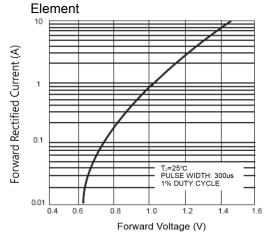


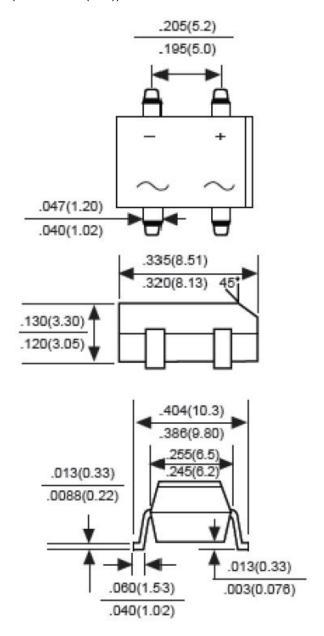
Figure 4. Typical Forward Characteristics Per Bridge



REVERSE VOLTAGE 50V TO 1000V RECTIFIED CURRENT 1.0A

PACKAGE INFORMATION

Dimension in DBS Package (Unit: inches(mm))





REVERSE VOLTAGE 50V TO 1000V RECTIFIED CURRENT 1.0A

IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc.'s integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or server property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.