



DESCRIPTION

The DB151S ~ DB157S are available in DBS Package.

FEATURE

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed For Surface Mount Application
- Plastic Material-UL Flammability

ORDERING INFORMATION

Package Type	Part Number
SOD-123FL	DB151S
	DB152S
	DB153S
	DB154S
	DB155S
	DB156S
	DB157S
Note	SPQ: 1,500pcs/Reel
AiT provides all RoHS Compliant Products	

MECHANICAL DATA

- Case: DBS, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: as Marked on Case



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

Parameter	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWS}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Forward Rectified Current at $T_A=40^\circ\text{C}$ (1)	I_o	1.50							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	55							A
Forward Voltage per Element at @ $I_F=1.5\text{A}$	V_{FM}	1.1							V
Peak Reverse Current at Rated	I_R	$T_A=25^\circ\text{C}$							μA
DC Blocking Voltage		$T_A=125^\circ\text{C}$							
Typical Junction Capacitance per Leg (2)	C_J	25							pF
Typical Thermal Capacitance per Leg	$R_{\theta JA}$	40							$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	15							
Operating Temperature Range	T_J	-55 ~ + 150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ + 150							$^\circ\text{C}$

(1) Mounted on glass epoxy PC board with 1.3mm² solder pad.

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Output Current Derating Curve

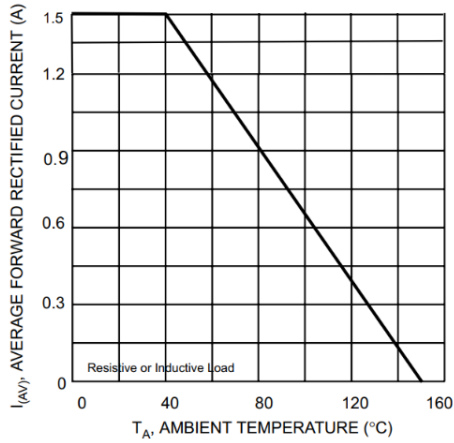


Fig 2. Typical Forward Characteristics (per leg)

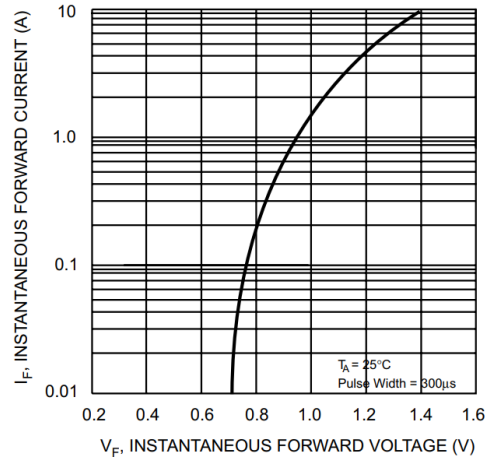


Fig 3. Maximum Peak Forward Surge Current (per leg)

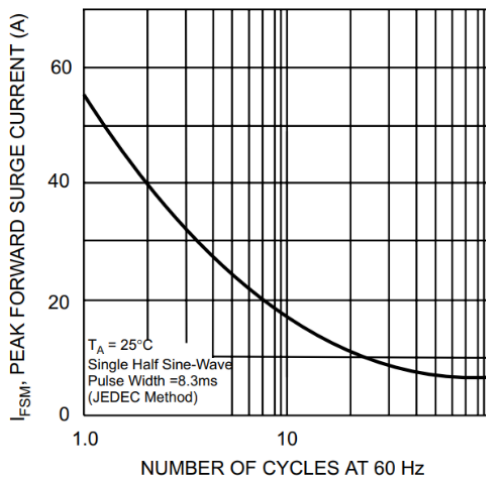
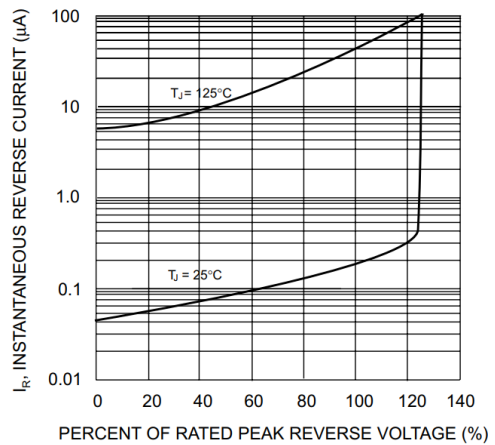


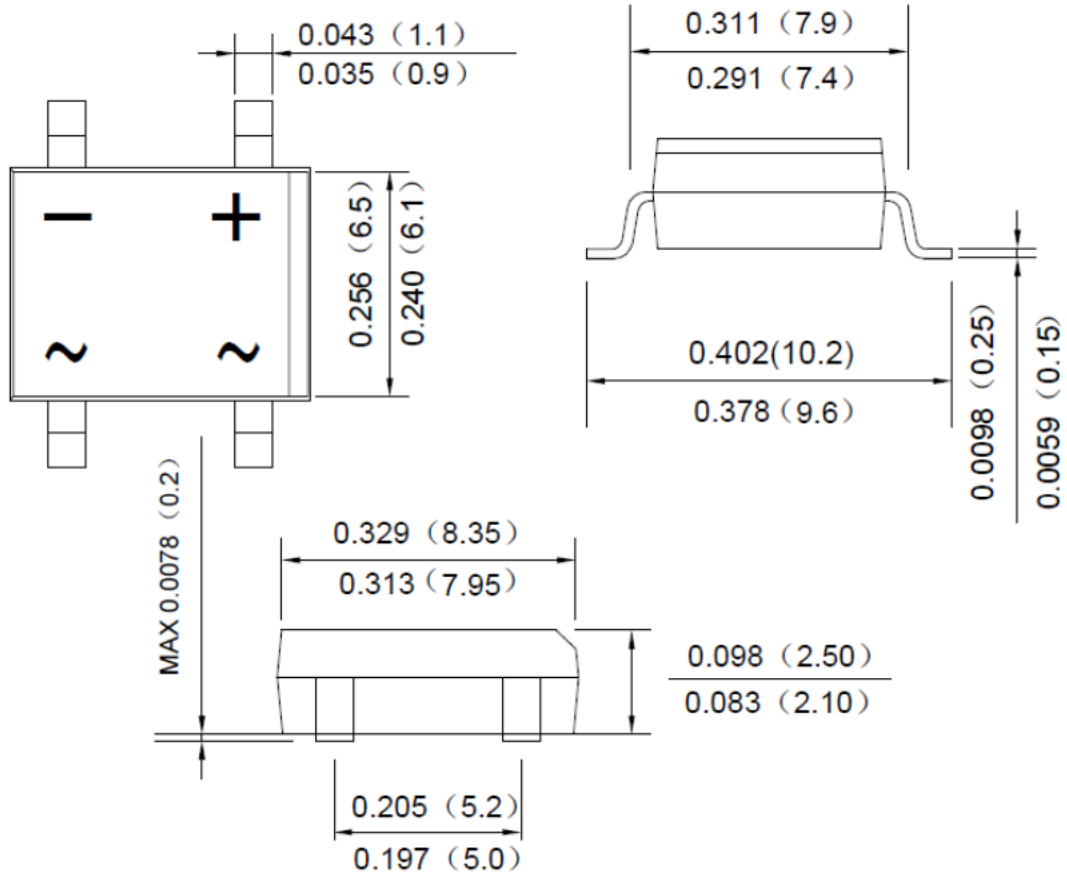
Fig 4. Typical Reverse Characteristics (per Element)





PACKAGE INFORMATION

Dimension in DBS Package





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