

DB151S THRU DB157S

Surface Mount Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes

Features

- Glass passivated chip
- Ideal for automatic placement
- High surge forward current capability
- Reliable low cost construction utilizing molded plastic technique
- Lead tin plated copper

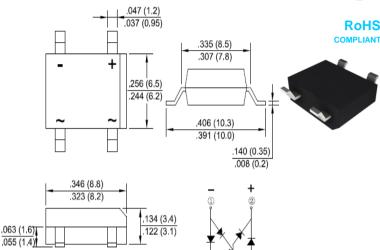
Mechanical Data

- 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.

DBS



Package Outline Dimensions in Inches (Millimeters)

.205 (5.2)

197 (5.0)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

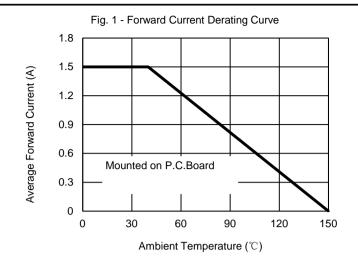
Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @Ta=40 $^{\circ}\mathrm{C}$	I(AV)	1.5							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	50							А
Superimposed on Rated Load (JEDEC Method)	IFSIVI								
I ² t Rating for Fusing (t<8.3mS)	l ² t	10.4							A ² s
Peak Forward Voltage per Diode at 1.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25°C	lR	10 500							μА
DC Blocking Voltage per Diode @TJ=125℃	IK IK								
Typical Junction Capacitance (Note1)	CJ	25							pF
Typical Thermal Resistance Junction to Ambient (Note2)	Reja	40							°C/W
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							

- Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
 - 2. Thermal resistance from junction to ambient mounted on P.C.B ,with 0.5*0.5"(13*13mm) copper pads.
 - 3. The typical data above is for reference only .





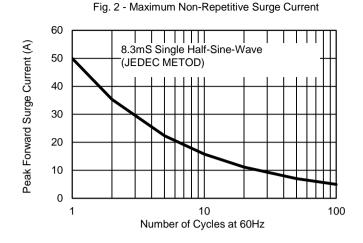


Fig. 3 - Typical Reverse Characteristics

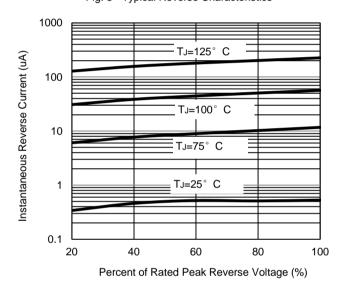


Fig. 4 - Typical Forward Characteristics

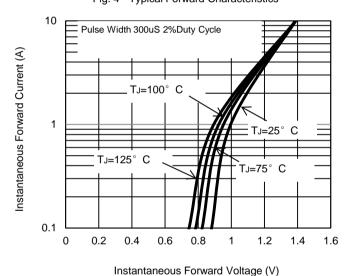
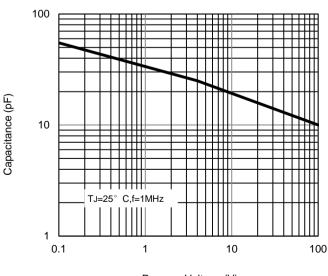


Fig. 5 - Typical Junction Capacitance



Reverse Voltage (V)

The curve above is for reference only.

DB15*S-U/13-00/99-00/01 Rev. 9, 22-Apr-2019



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