DB151S THRU DB157S

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

REVERSE VOLTAGE: FORWARD CURRENT:

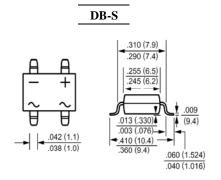
50 to 1000 VOLTS 1.5 AMPERE

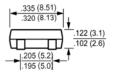


- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- High surge overload rating of 50 Amperes peak
- · Ideal for printed circuit board
- · Glass passivated chip junction

MECHANICAL DATA

Case: Molded plastic, DB-S Epoxy: UL 94V-O rate flame retardant Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed Mounting position: Any Weight: 0.02ounce, 0.4gram





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

	Symbols	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A =40°C (Note 2)	I _(AV)	1.5							Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I _{FSM}	I _{FSM} 50							Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 1.5A DC and 25℃	V _F	1.1							Volts
Maximum Reverse Current at T _A =25°C	Ŧ	5.0							uAmp
at Rated DC Blocking Voltage T _A =125°C	I _R	500							
Typical Junction Capacitance (Note 1)	CJ	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	40							°C/W
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	15							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150						°C	

NOTES:

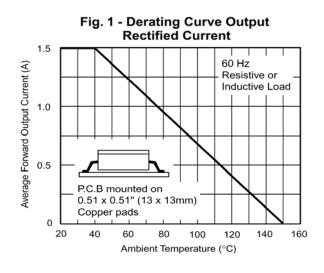
1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

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RATINGS AND CHARACTERISTIC CURVES



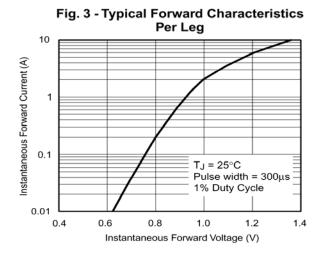


Fig. 5 - Typical Junction Capacitance Per Leg

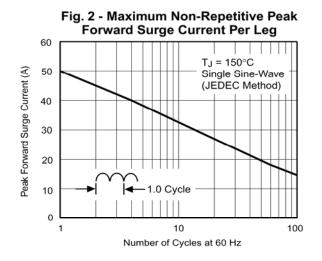


Fig. 4 - Typical Reverse Leakage Characteristics Per Leg

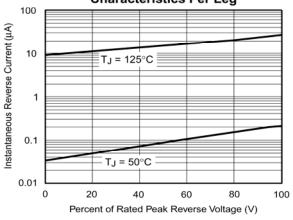


Fig. 6 - Typical Transient Thermal Impedance

