DB151S THRU DB157S

SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.5 Ampere

FEATURES

- ♦Glass passivated chip junction.
- ♦ High surge overload rating of 50 Amperes peak.
- ◆Ideal for printed circuit board.
- ♦ High temperature soldering guaranteed: 260°C for 10 seconds.

Mechanical Data

◆Case: Molded plastic, DB-S.

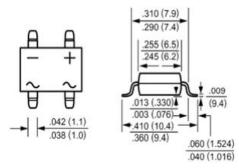
◆Epoxy: UL 94V-O rate flame retardant.

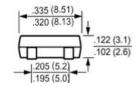
◆Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed.

◆Mounting position: Any.

♦ Weight: 0.02ounce, 0.4gram.

DB-S





Dimensions in inches and (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%

Single prime, that wave, our state of memory countries countries of 20%									
PARAMETER	SYMBOL	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNIT
Maximum Recurrent 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}	100	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A=40^{\circ}C$ (Note 2)	I _(AV)	1.5							A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	Ifsm	50							A
Maximum forward Voltage at 1.5A DC and 25°C	V_{F}	1.1							V
Maximum DC Reverse Current at $T_A=25^{\circ}C$ at Rated DC Blocking voltage $T_A=125^{\circ}C$	\mathbf{I}_{R}	5.0 500							μΑ
Typical Junction Capacitance (Note 1)	C_{J}	25							pF
Typical Thermal Resistance (Note 2)	R ₀ JC	40							°C/W
Typical Thermal Resistance (Note 2)	RөлL	15							°C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-55 to +150							$^{\circ}$

Note: 1.Measured at 1.0MHz and applied reversed 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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RATING AND CHARACTERISTIC CURVES DB151S THRU DB157S

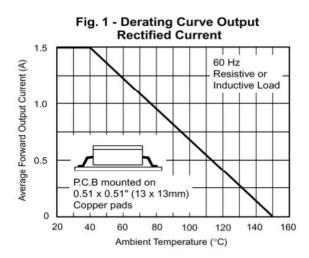
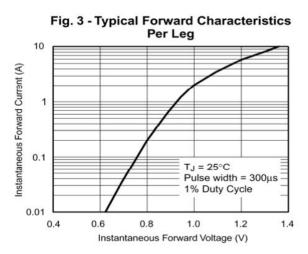


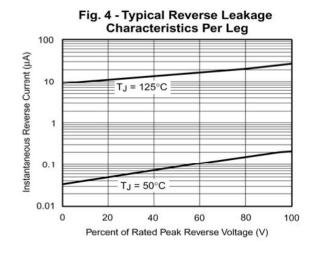
Fig. 2 - Maximum Non-Repetitive Peak
Forward Surge Current Per Leg

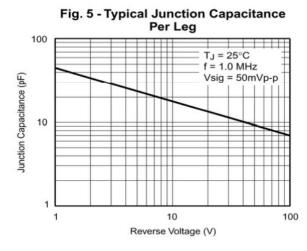
60

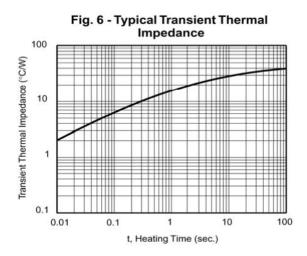
T_J = 150°C
Single Sine-Wave
(JEDEC Method)

10
Number of Cycles at 60 Hz









Note: Specifications are subject to change without notice. For more detail and update, please visit our website.