DB151S thru DB157S

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 1.5 Amperes

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0
- RoHS compliant package

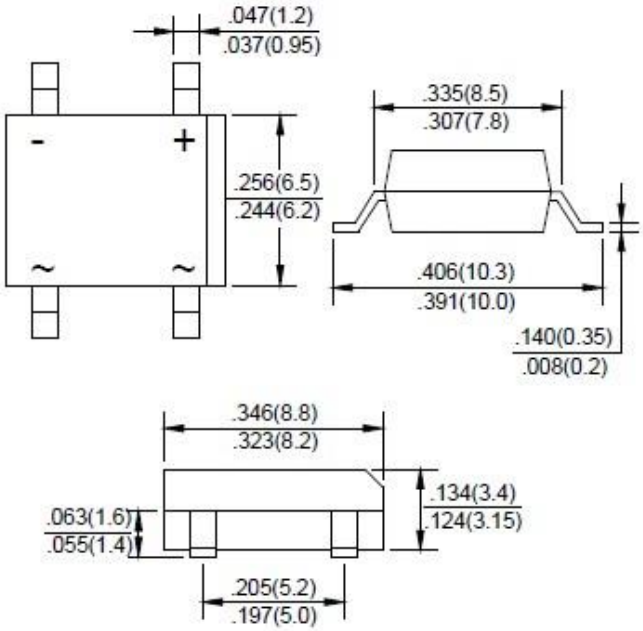
Mechanical Data

- Polarit:As marked on body
- Weight:0.02 ounces,0.38 grams
- Mounting position:Any

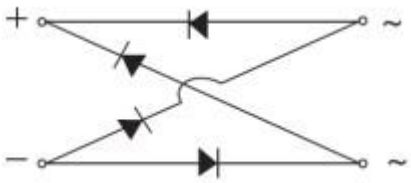
Packing & Order Information

5,000/Reel

RoHS
COMPLIANT



Graphic symbol



MAXIMUM RATINGS AND THERMAL 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%.

CHARACTERISTICS		DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RWS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	100	V
Maximum average forward rectified current at T_A=40°C	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half-sine-wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	50							A

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CHARACTERISTICS		DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	UNITS
Maximum Forward Voltage at 1.5A DC	V_F	1.1							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Bolcking Voltage @TJ=125°C	I_R	10 500							V
I^2t Rating for Fusing (t<8.3ms)	I^2t	10.4							μA
Typical Junctio Capacitance Per Element (Note1)	Cj	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note:

1.Measured at 1.0MHz 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

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■RATING AND CHARACTERISTIC CURVES DB151S thru DB157S

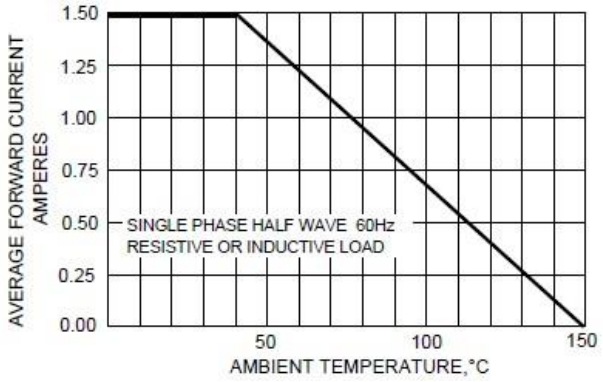

FIG. 1 FORWARD URRENT DERATING CURVE

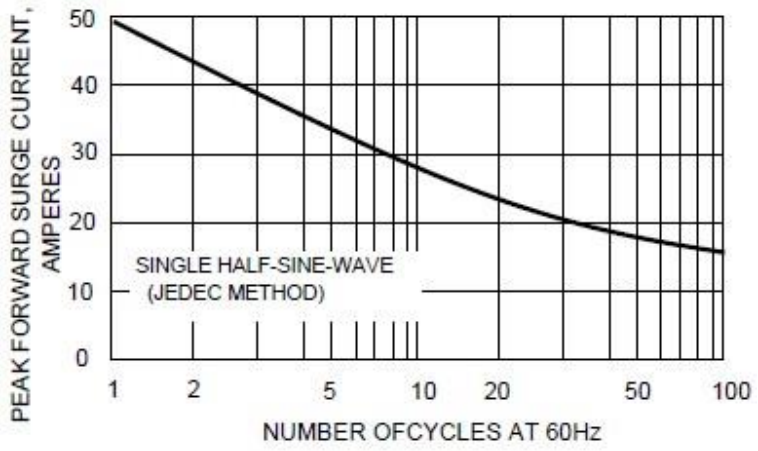

FIG. 2 MAXIMUM NON-REPETITIVE SURGE CURRENT

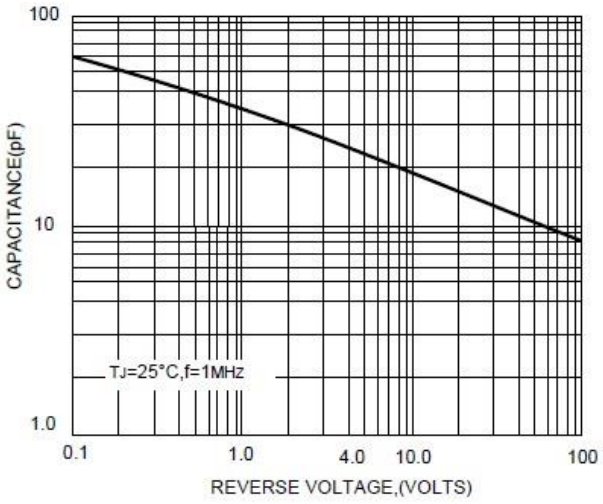

FIG. 3 TYPICAL JUNCTION CAPACITANCE

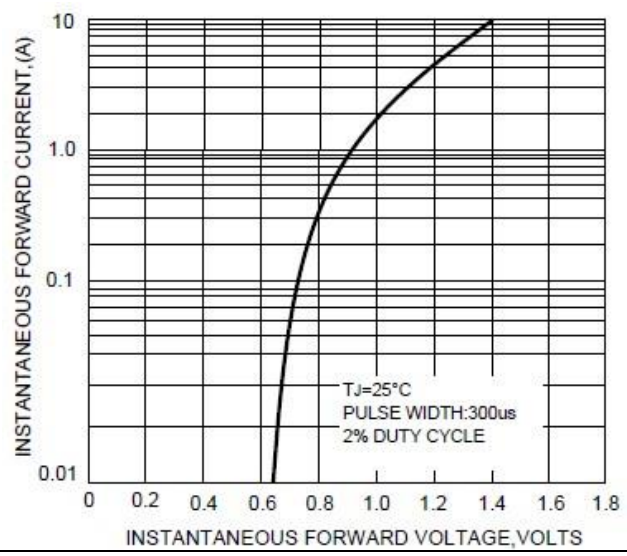

FIG. 4 TYPICAL FORWARD CHARACTERISTICS

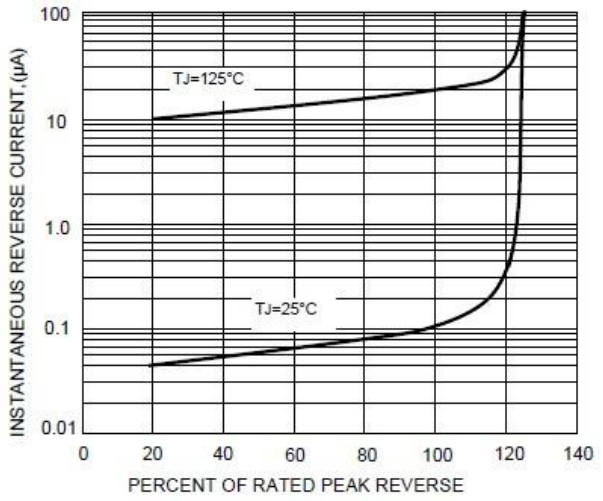

FIG. 5 PERCENT OF RATED PEAK REVERSE

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