



DB151 THRU DB157

Voltage Range - 50 to 1000 Volts Current - 1.5 Ampere

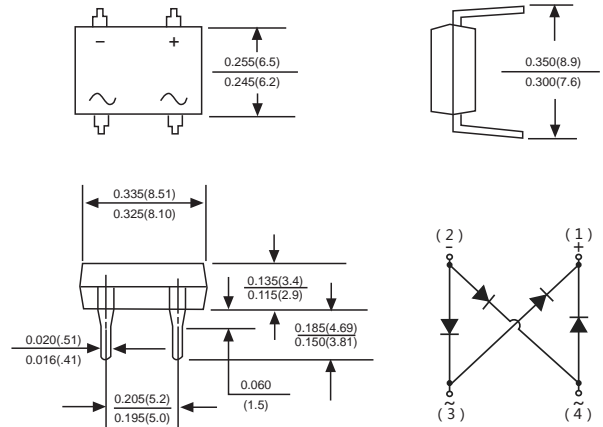
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability

DB

ROHS
COMPLIANT



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC DB Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.02 ounce, 0.34 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD	MDD	MDD	MDD	MDD	MDD	MDD	UNITS	
		DB151	DB152	DB153	DB154	DB155	DB156	DB157		
Marking Code										
Maximum repetitive 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}	50	100	200	400	600	800	1000	V	
Maximum average forward rectified current at $T_C=40^\circ C$	$I_{F(AV)}$	1.5							A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A	
Maximum instantaneous forward voltage drop per leg at 1.5A	V_F	1.1							V	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_A=25^\circ C$							10	μA
		$T_A=100^\circ C$							500	μA
Operating temperature range	T_J	-55 to +150							$^\circ C$	
storage temperature range	T_{STG}	-55 to +150							$^\circ C$	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C. board with 0.51" x 0.51" (13x13mm) copper pads.



Ratings And Characteristic Curves

Fig. 1 Derating Curve for Output Rectified Current

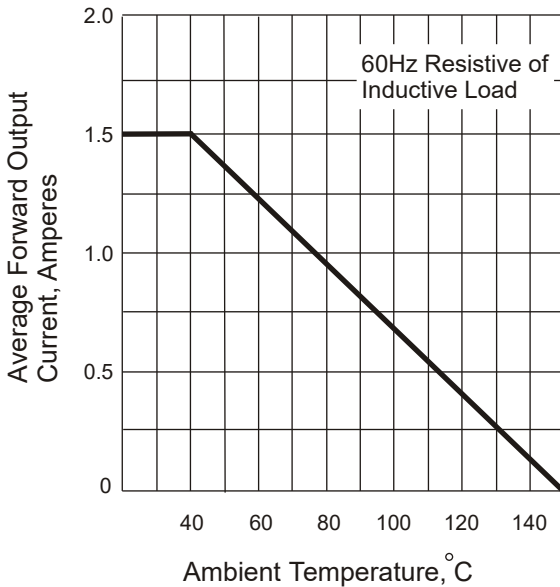


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

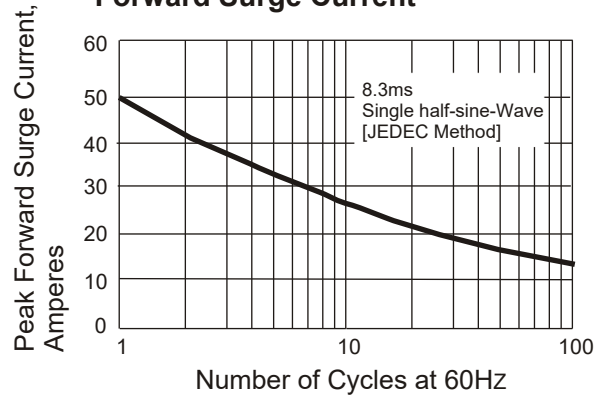


Fig. 3 Typical Instantaneous Forward Characteristics

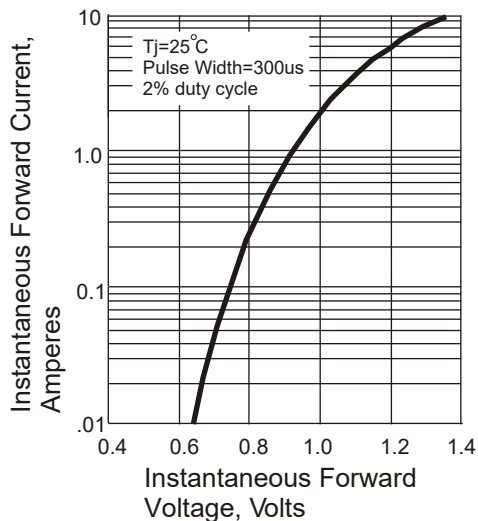


Fig. 4 Typical Revers Characteristics

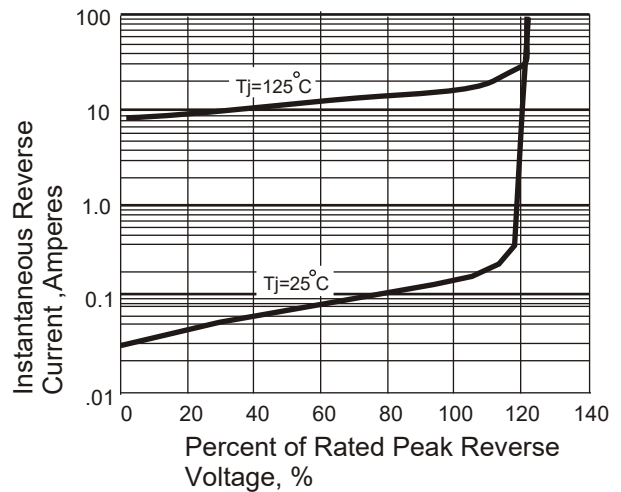
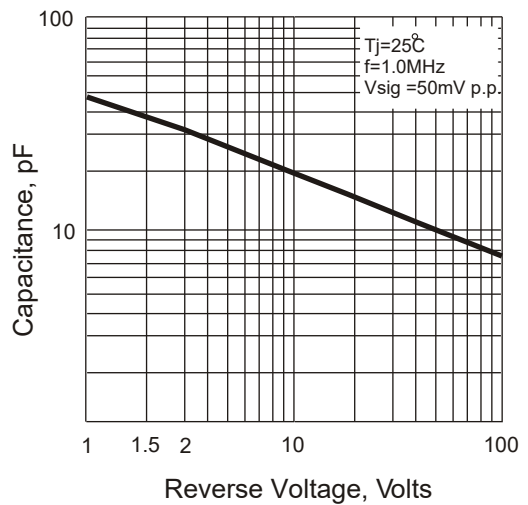


Fig. 5 Typical Junction Capacitance



The curve above is for reference only.