



DB151 THRU DB157

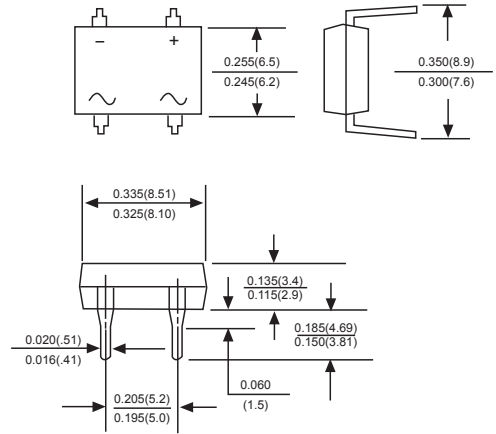
Voltage Range - 50 to 1000 Volts Current - 1.5 Ampere

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, 0.4 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	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
		MDD DB151	MDD DB152	MDD DB153	MDD DB154	MDD DB155	MDD DB156	MDD DB157	
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 $T_C=40^\circ\text{C}$	$I_{F(AV)}$	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 $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	I_R	10 500							μA μA
Operating temperature range	T_J	-55 to +150							$^\circ\text{C}$
storage temperature range	T_{STG}	-55 to +150							$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4x1.5" x 1.5" (3.81x3.81 cm) copper pad.

Ratings And Characteristic Curves

FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

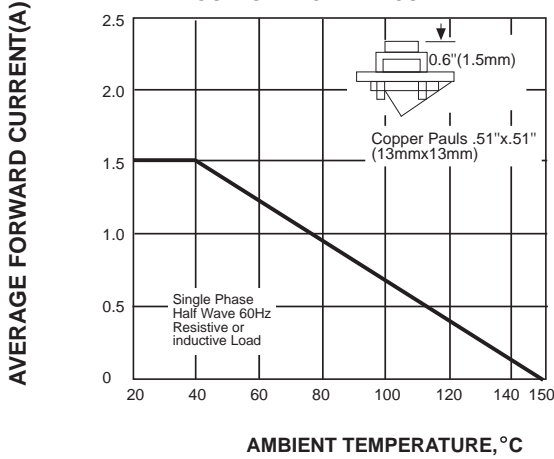


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

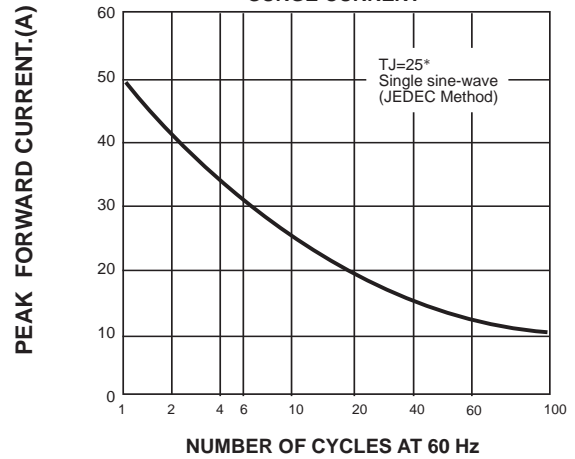


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

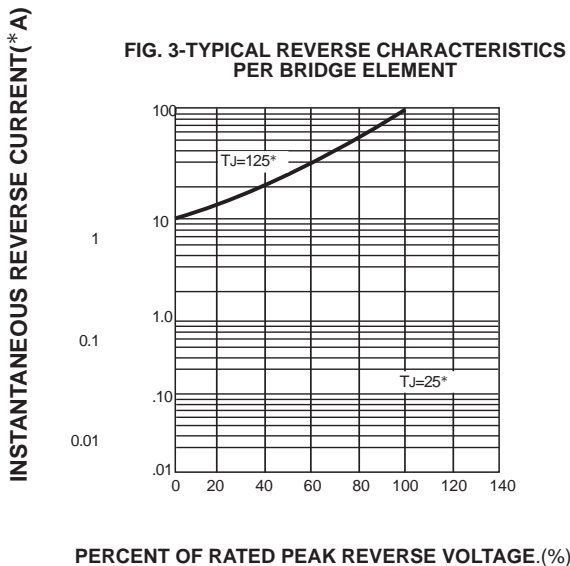


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

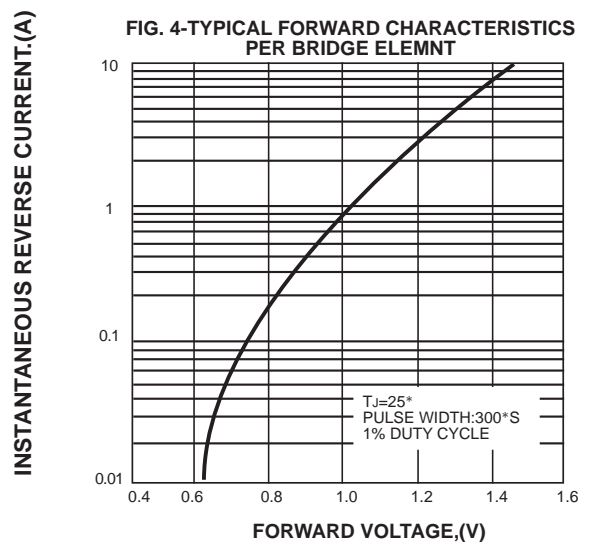
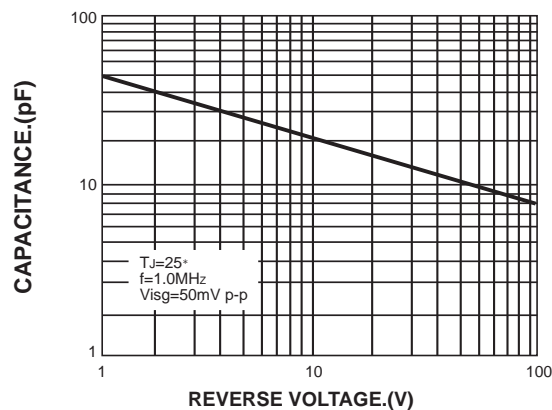


FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



The curve above is for reference only.

单击下面可查看定价，库存，交付和生命周期等信息

[>>MDD\(辰达行\)](#)