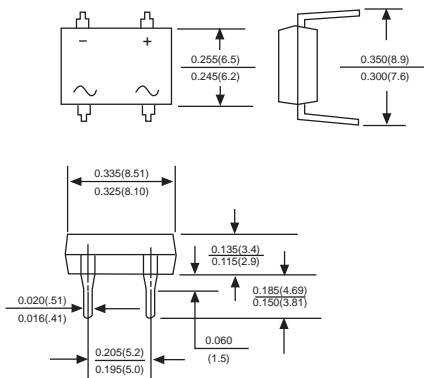


# DB151 THRU DB157

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.5 Ampere

## DB



Dimensions in inches and (millimeters)

## FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0  
Ideal for printed circuit boards  
Low reverse leakage  
High forward surge current capability  
High temperature soldering guaranteed:  
260°C/10 seconds, 5 lbs. (2.3kg) tension

## MECHANICAL DATA

**Case:** Molded plastic body  
**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026  
**Polarity:** Polarity symbols marked on case  
**Mounting Position:** Any  
**Weight:** 0.02 ounce, 0.4 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25\* ambient temperature unless otherwise specified.

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

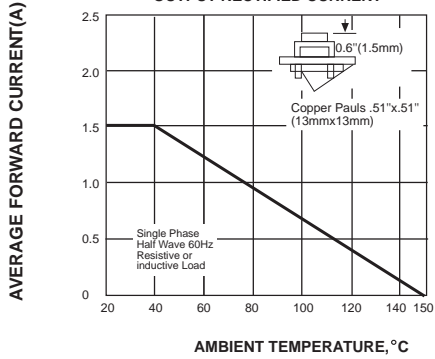
Catalog Number	SYMBOLS	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_A=40^*$	$I_{F(AV)}$	1.5							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							Amps
Maximum instantaneous forward voltage drop per bridge element at 1.5A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	10 500							$\mu A$ $\mu A$
Operating temperature range	$T_J$	-55 to +150							°C
storage temperature range	$T_{STG}$	-55 to +150							°C

### NOTES:

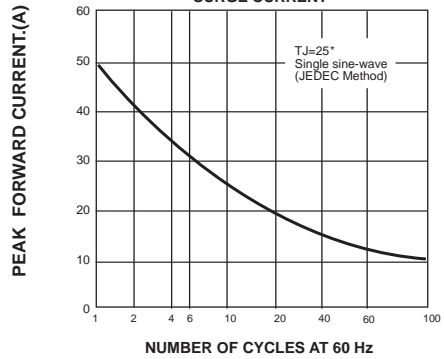
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.
2. Unit mounted on P.C. board with 0.51" x 0.51" (13x13mm) copper pads.

# RATINGS AND CHARACTERISTIC CURVES DB151 THRU DB157

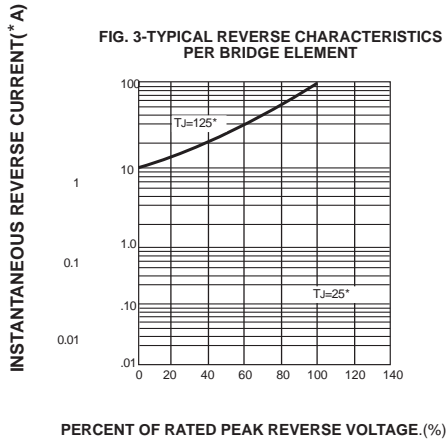
**FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



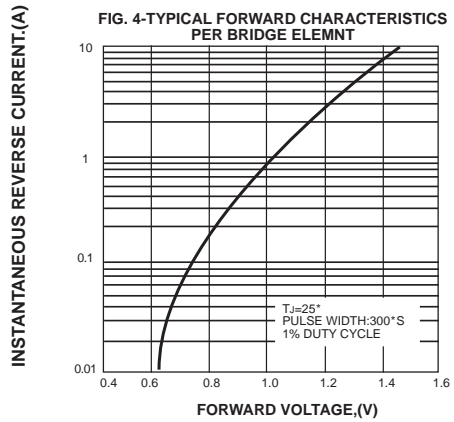
**FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 3- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT**

