

Features

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

DBS
RoHS
COMPLIANT

Pb
Pb-Free

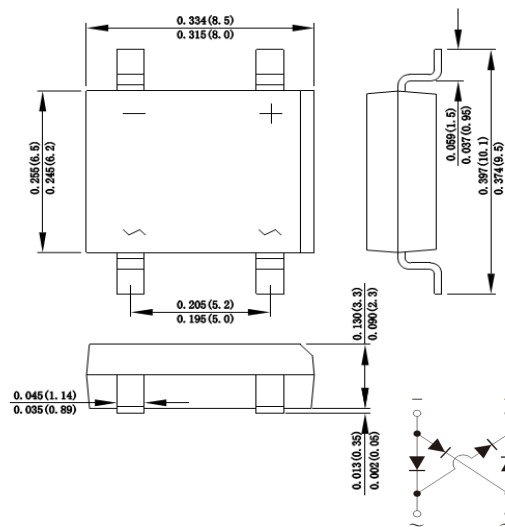
Mechanical Data

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 : 0.0078 ounce, 0.22 grams


Dimensions in inches and (millimeters)

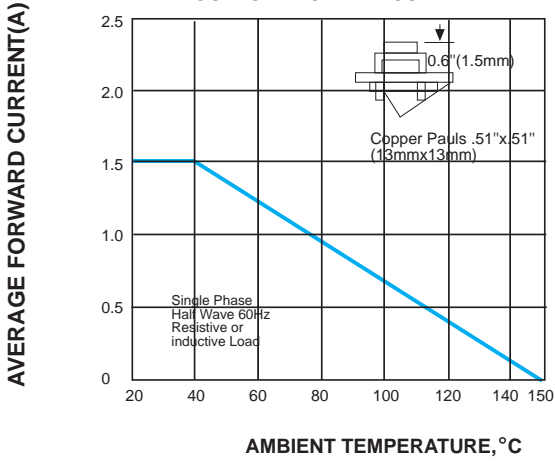
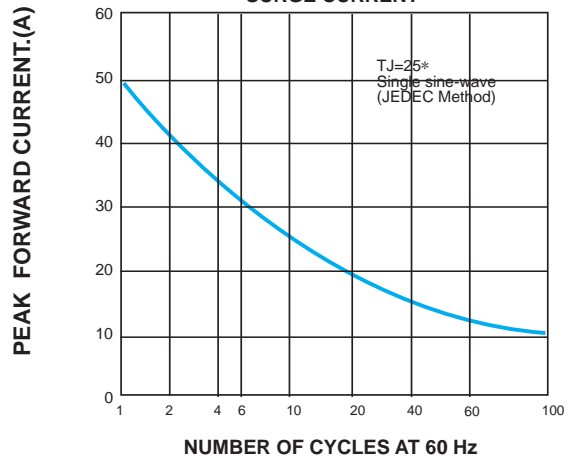
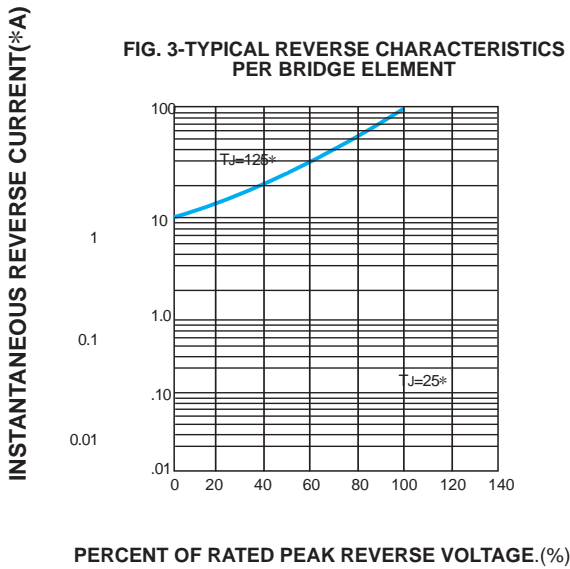
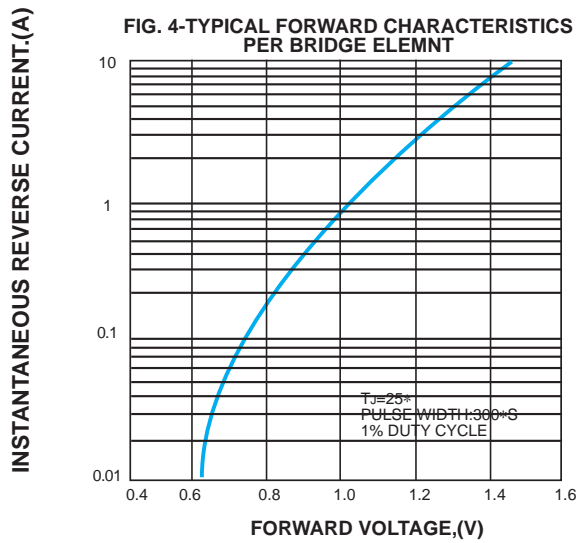
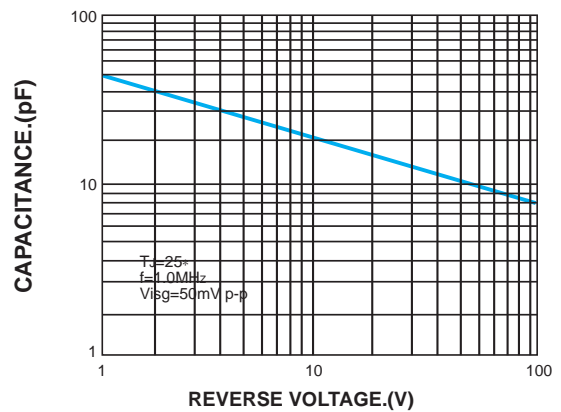
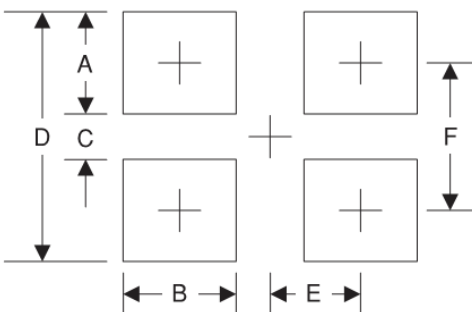
Maximum Ratings And Electrical Characteristics

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
Marking Code		S	S	S	S	S	S	S	
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	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 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- 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

Suggested Pad Layout


Symbol	Unit (mm)	Unit (inch)
A	2.3	0.091
B	1.3	0.051
C	6.90	0.272
D	11.5	0.453
E	2.6	0.102
F	9.20	0.362