

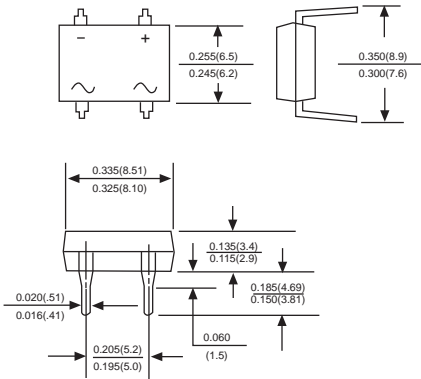


DB151 THRU DB157

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.5 Ampere

DB



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%.

MDD Catalog Number	SYMBOLS	MDD DB151	MDD DB152	MDD DB153	MDD DB154	MDD DB155	MDD DB156	MDD 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 $T_A=40^\circ C$	$I_{F(AV)}$	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							μA μA
Operating temperature range	T_J	-55 to +150							$^\circ C$
storage temperature range	T_{STG}	-55 to +150							$^\circ C$

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

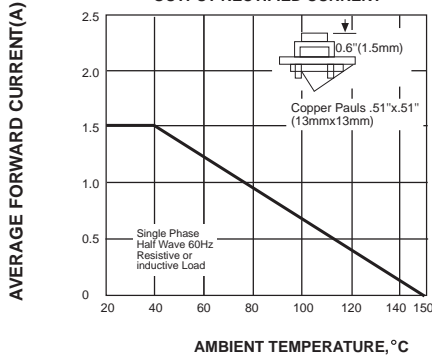


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

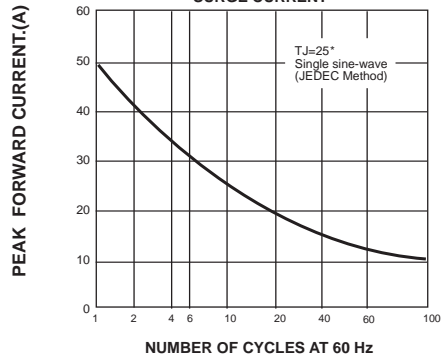


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

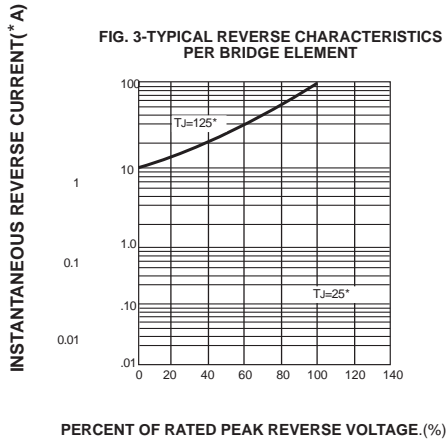


FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

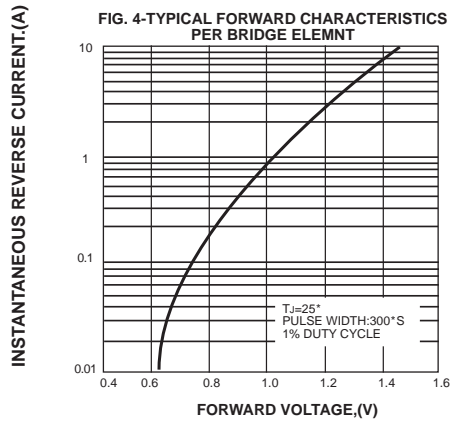
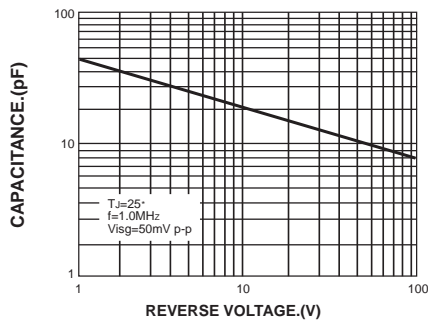


FIG. 3- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考!)

