DB151 THRU DB159

MINIATURE SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

REVERSE VOLTAGE: **50 to 1400 VOLTS**
FORWARD CURRENT: **1.5 AMPERE**

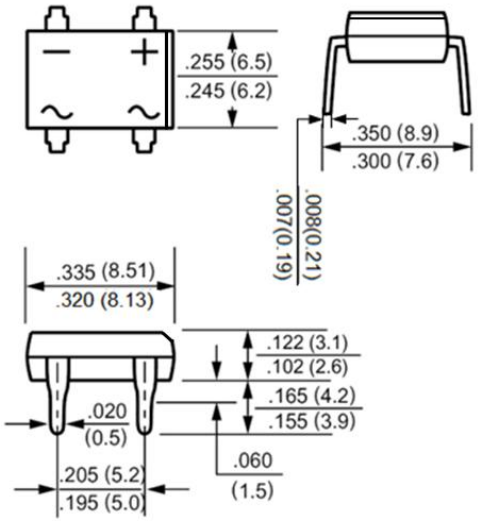
FEATURES

· Glass passivated chip junction
· Low forward voltage drop
· High surge current capability
· Ideal for printed circuit board
· High temperature soldering guaranteed:
260°C for 10 seconds

MECHANICAL DATA

Case: Molded plastic, DB-M
Epoxy: UL 94V-0 rate flame retardant
Terminals: Pure tin plated, lead free, Leads solderable per MIL-STD-202, method 208 guaranteed
Mounting position: as Marking
Weight: 0.34gram

DB-M



Dimensions in inches and (millimeters)

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%.

	Symbols	*DB151*	*DB152*	*DB153*	*DB154*	*DB155*	*DB156*	*DB157*	*DB158*	*DB159*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1400	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	840	980	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1200	1400	**Volts**
Maximum Average Forward Rectified Current at TA=40℃	$I_{(AV)}$	1.5									**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50									**Amp**
Maximum Forward Voltage at 1.5A DC and 25℃	V_F	1.10							1.25		**Volts**
Maximum Reverse Current at TA=25℃	IR	10									**uAmp**
at Rated DC Blocking Voltage TA=125℃		500									
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40									**℃/W**
	$R_{\theta JL}$	15									
Operating and Storage Temperature Range	TJ，Tstg	-55 to +150									**℃**

NOTES:

1- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

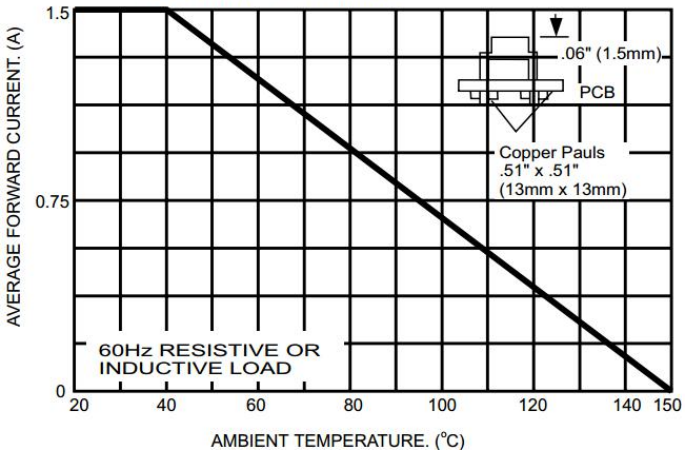

FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

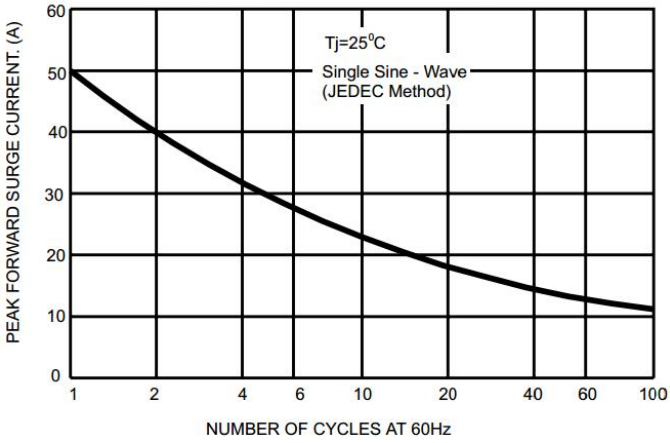

FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

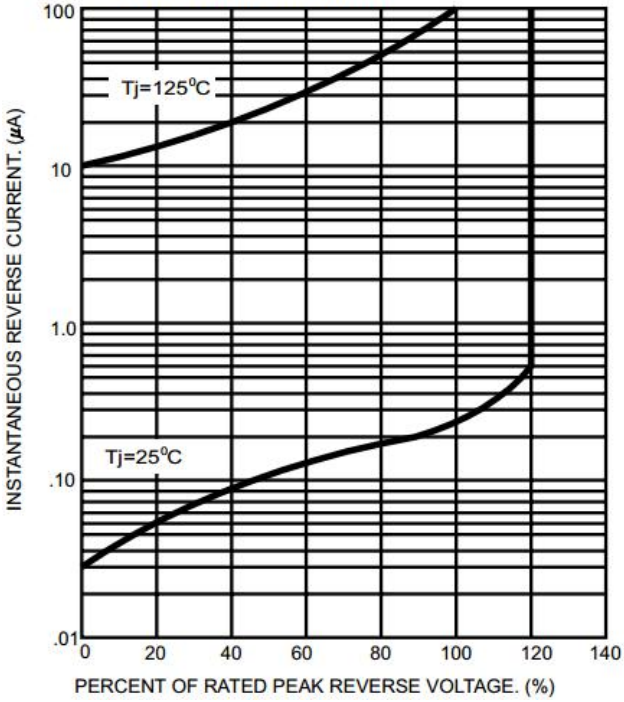

FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

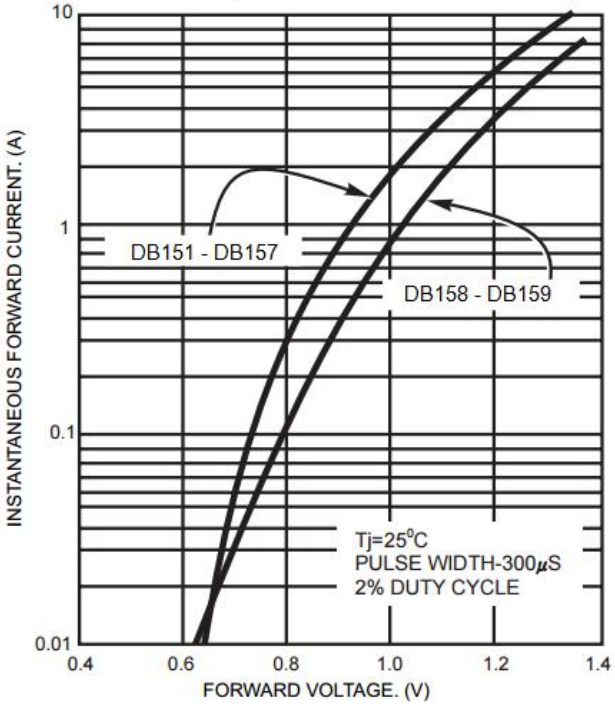

FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT