

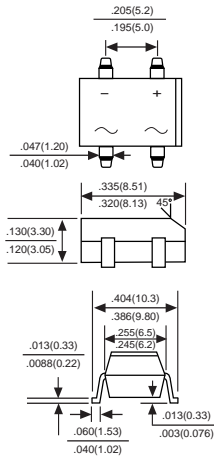


DB151S THRU DB157S

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.5 Ampere

DBS



Dimensions in inches and (millimeters)

FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed:
- ◆ 250*/10 seconds / 0.375"(9.5mm) lead length at 5 lbs., (2.3kg)tension
- ◆ Small size, simple installation
Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability

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%.

TWGMC Catalog Number	SYMBOLS	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	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 $T_A=25^*$ $T_A=125^*$	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: DBS for surface mount package.

RATINGS AND CHARACTERISTIC CURVES DB151S THRU DB157S

FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

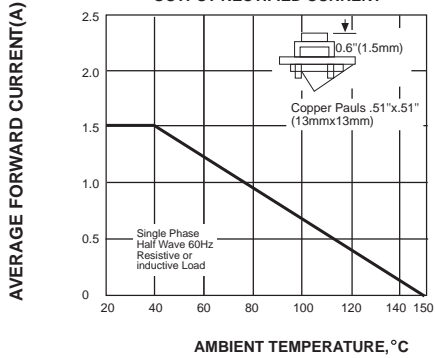


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

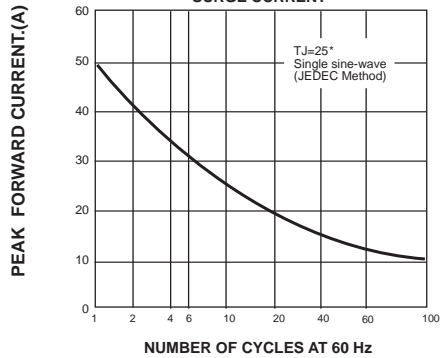


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

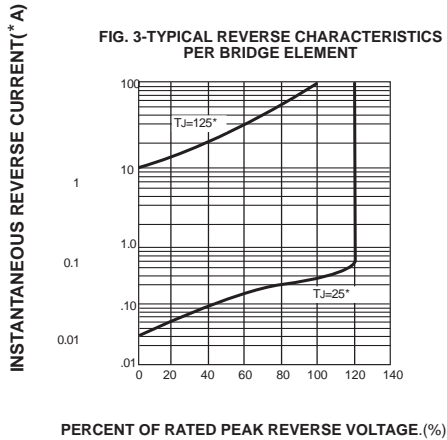


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

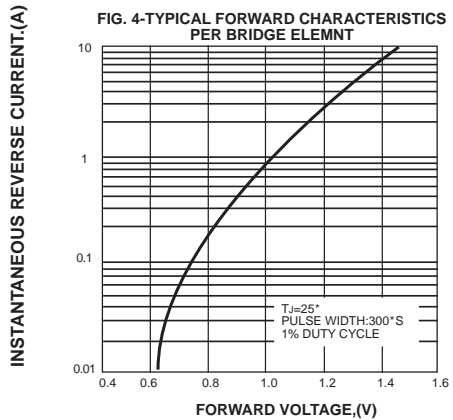


FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

