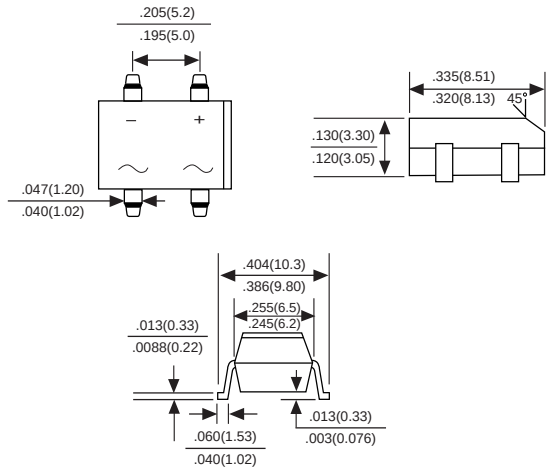
DB151S-DB157S

GLASS PASSIVATED BRIDGE RCTIFIER

VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.5 A



DBS



Dimensions in inches and (millimeters)

Features

- Rating to1000VPRV
- Ideal forprintedcircuit board
- Low forwardvoltagedrop,highcurrent capability
- Reliablelowcost constructionutilizingmoldedplastic
- TheplasticmaterialhasUL flammability classification94V-0

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

RoHS COMPLIANT

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	Unit
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_A=40*	$I_{F(AV)}$	1.5							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Maximum instantaneous forward voltage drop per birdge element at 1.5A	V_F	1.1							V
Maximum DC reverse current T_A=25*	I_R	10							μA
at rated DC blocking voltage T_A=125*		500							μA
Operating temperature range	T_J	-55 to +150							°C
storage temperature range	T_{STG}	-55 to +150							°C

RATINGS AND CHARACTERISTIC CURVES DB151S THRU DB157S

FIG. 1- MAXIMUN DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

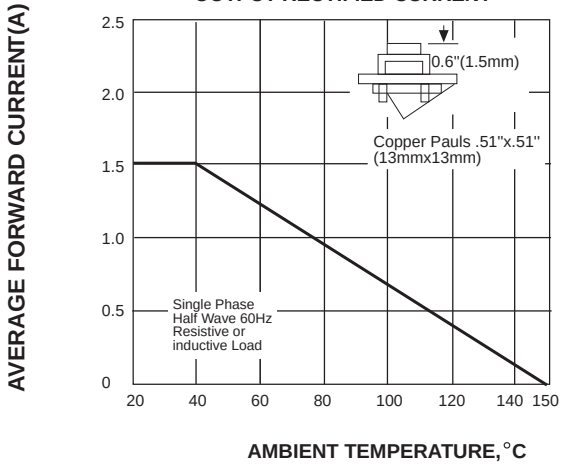


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

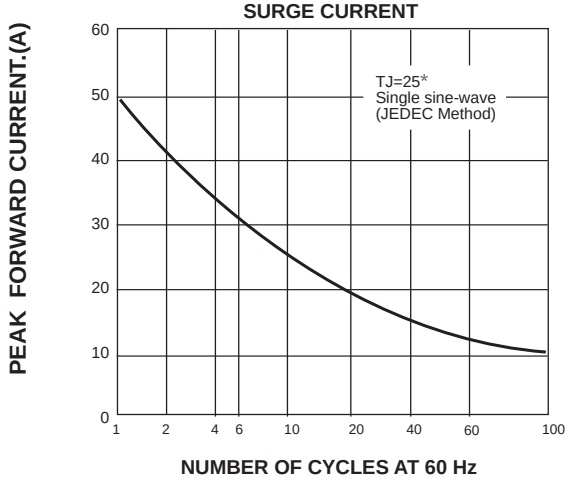


FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

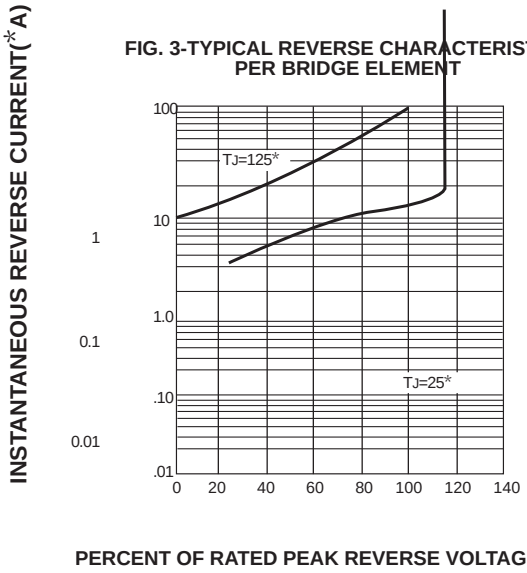


FIG. 4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMNT

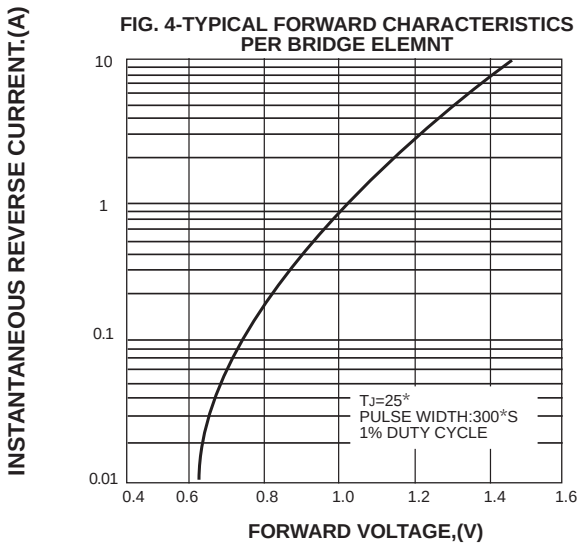


FIG. 3-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

