

DB151S THRU DB157S

**SINGLE PHASE GLASS
PASSIVATED BRIDGE RECTIFIER**
VOLTAGE:50 TO 1000V CURRENT:1.5A

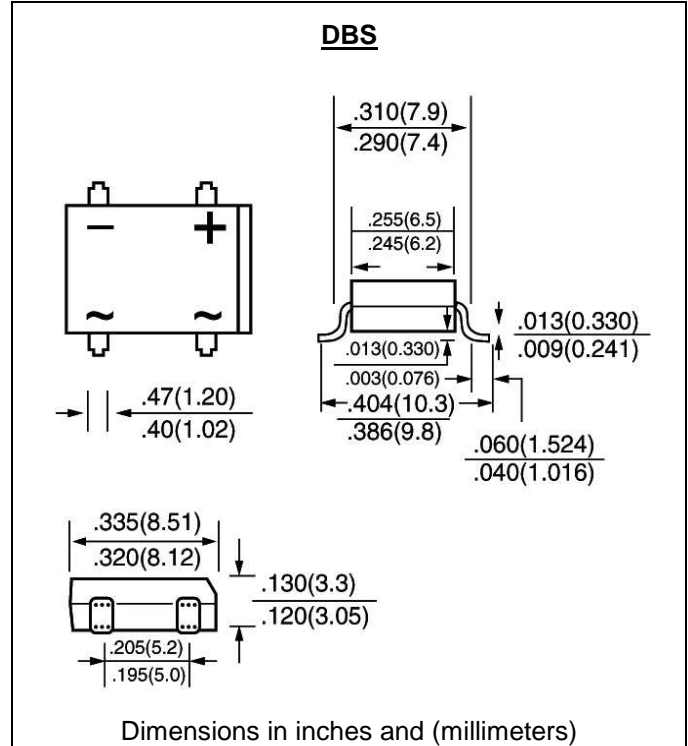


FEATURE

Glass passivated junction
Ideal for printed circuit board
Reliable low cost construction utilizing molded plastic technique
Surge overload rating:50 A peak

MECHANICAL DATA

Terminal: Plated leads solderable per MIL-STD 202E, method 208C
Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	DB 151S	DB 152S	DB 153S	DB 154S	DB 155S	DB 156S	DB 157S	units
Maximum Recurrent 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 Ta =40°C	I _{f(av)}	1.5							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0							A
Rating for fusing(t<8.3ms)	I ² t	10							A ² sec
Maximum Instantaneous Forward Voltage at rated Forward Current	V _f	1.1							V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10.0 500.0							μA
Typical Thermal Resistance (Note1)	R _{th(ja)} R _{th(jl)}	40 15							°C/W
Typical Junction Capacitance (Note2)	C _j	25.0							pF
Storage and Operation Junction Temperature	T _{stg} , T _j	-55 to +150							°C

Note:

1. Thermal resistance from Junction to Ambient and from Junction to Lead mounted on P.C.B. with 0.51×0.51”(13×13mm) copper pads
2. Measured at 1.0 MHz and applied voltage of 4.0 volt

RATINGS AND CHARACTERISTIC CURVES DB151S THRU DB157S

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

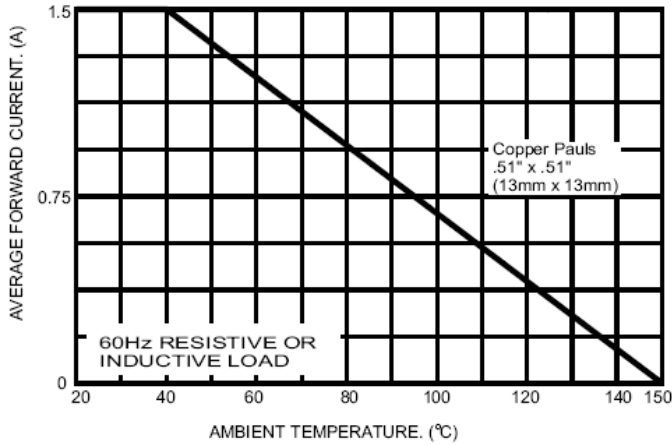


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

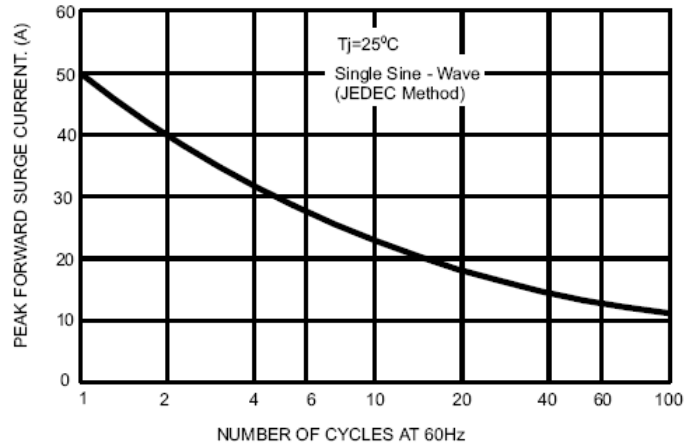


FIG.3- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

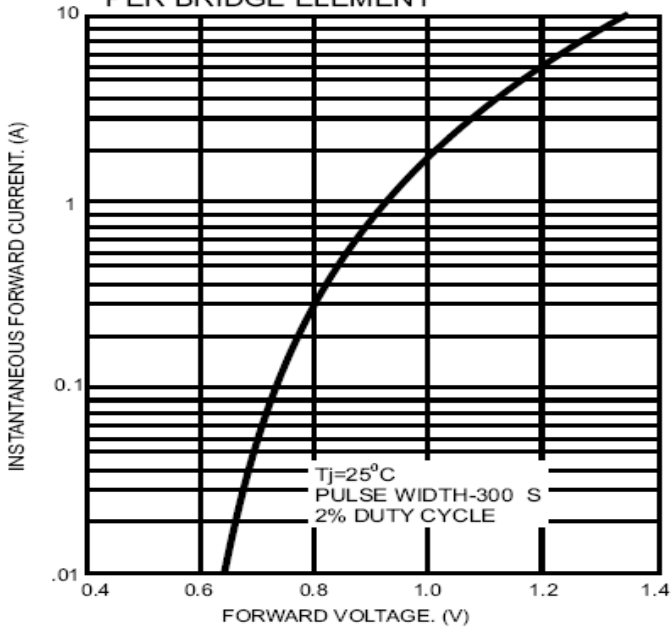


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

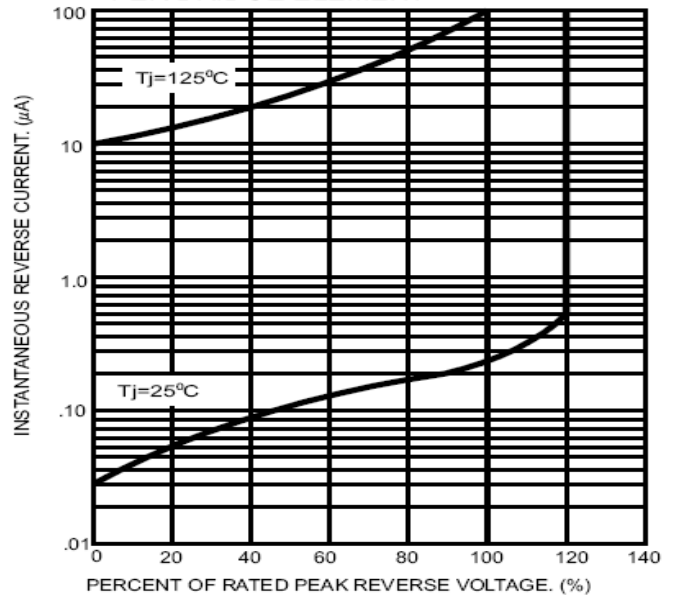


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

