# **DB151 THRU DB157**

# 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

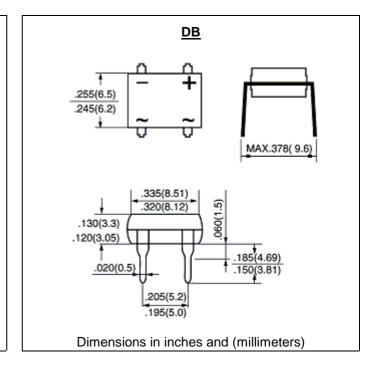
#### **MECHANICAL DATA**

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%)

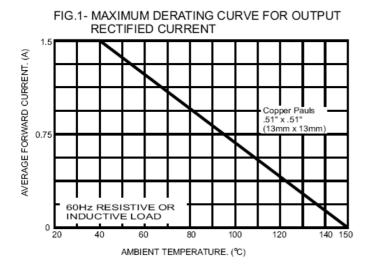
	SYMBOL	DB 151	DB 152	DB 153	DB 154	DB 155	DB 156	DB 157	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta =40°C	If(av)	1.5							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50.0							А
Maximum Instantaneous Forward Voltage at rated Forward Current	Vf	1.1						V	
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10.0 500.0							μΑ
Typical Thermal Resistance (Note1)	Rth(ja)	40							°C/W
	Rth(jl)	15							
Typical Junction Capacitance (Note2)	Cj	25.0							pF
Storage and Operation Junction Temperature	Tstg, Tj	-55 to +150						°C	

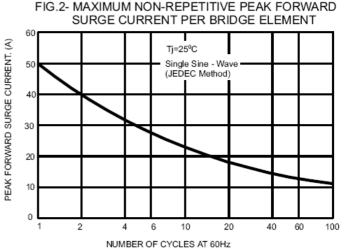
Note:

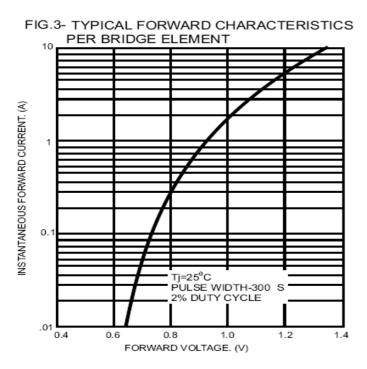
- 1. Thermal resistance from Junction to Ambient and from Junction to Lead mounted on P.C.B. with  $0.51 \times 0.51"(13 \times 13 mm)$  copper pads
- 2. Measured at 1.0 MHz and applied voltage of 4.0 volt

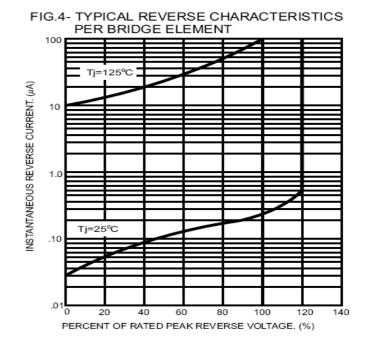
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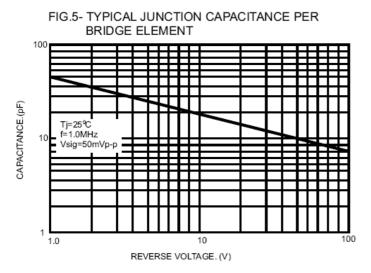
#### **RATINGS AND CHARACTERISTIC CURVES DB151 THRU DB157**











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