

## DBS SILICON BRIDGE RECTIFIER

REVERSE VOLTAGE: 50 --- 1000V    CURRENT: 1.5A

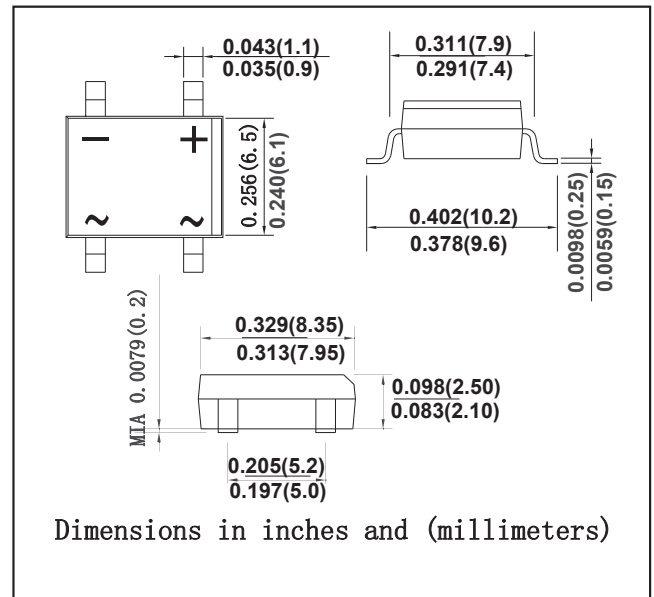
### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed :260 C / 10s seconds at terminals

Component in accordance to RoHS 2015/863 and WEEE 2012/19/EU

### MECHANICAL DATA

- Case: DBS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting position: Any



### MAXIMUM RATINGS AND CHARACTERISTICS

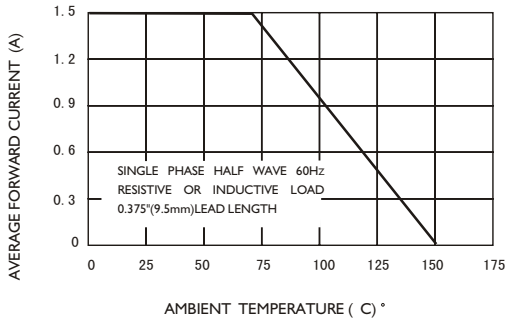
@ 25°C Ambient Temperature (unless otherwise noted)

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

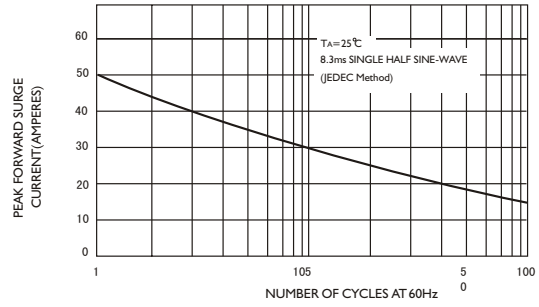
Parameter	Symbols	DB151	DB152	DB153	DB154	DB155	DB156	DB157	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I(AV)	1.5							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50							Amps
Maximum Instantaneous Forward Voltage at I <sub>F</sub> = 5 A DC	V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> = 25 °C	10							μA
	T <sub>A</sub> = 125 °C	500							
Typical junction capacitance (Note 1)	C <sub>J</sub>	25							pF
Typical thermal resistance (Note 2) Operating	R <sub>θJA</sub>	40							K/W
junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150							°C

## RATINGS AND CHARACTERISTIC CURVES

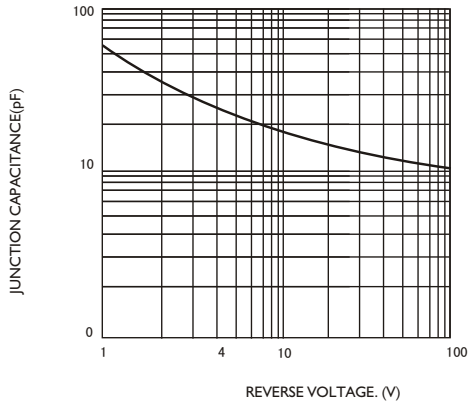
**FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE**



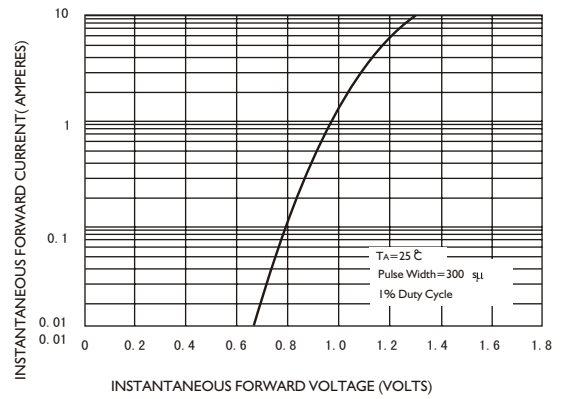
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**FIG.4-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**

