

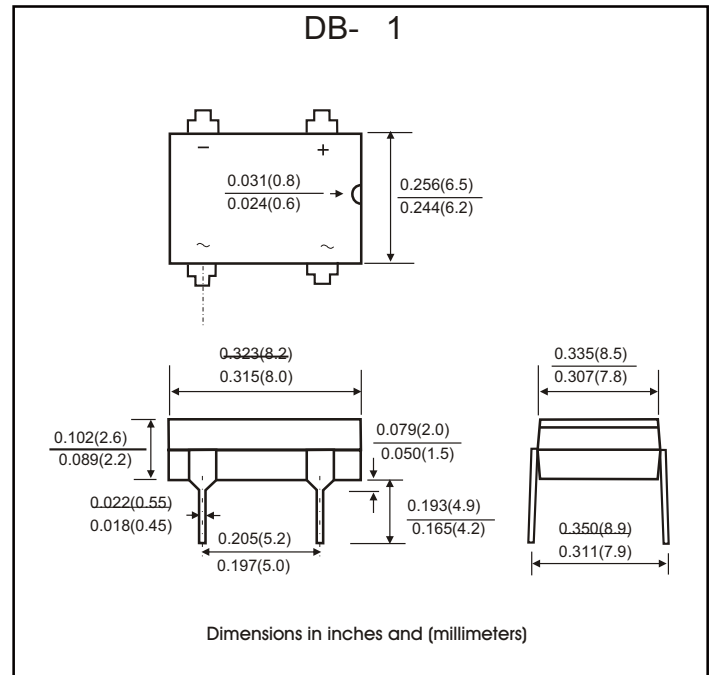
## SILICON BRIDGE RECTIFIER

### 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 2002/95/EC and WEEE2002/96/EC

### MECHANICAL DATA

- Case:DB-1 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)

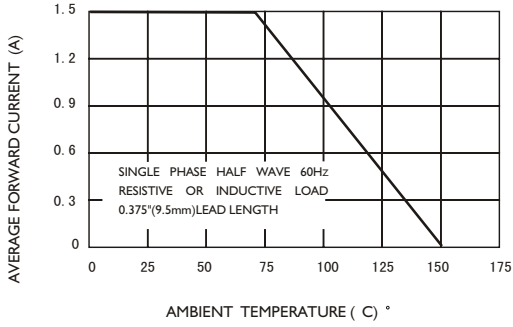
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	DB151 DF 15005	DB152 DB153 DF 1501	DB154 DF 1502	DB155 DB DF 1504	56 DB157 DF 1506	DF 1508	DF 1510	Units
Maximum Recurrent 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		$I(AV)$	1.5							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		$I_{FSM}$	50							Amps
Maximum Instantaneous Forward Voltage at 1.5 A DC		$V_F$	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25\text{ }^{\circ}\text{C}$	$I_R$	10							$\mu\text{A}$
	$T_A=125\text{ }^{\circ}\text{C}$		500							
Typical junction capacitance(Note 1)		$C_J$	25							pF
Typical thermal resistance(Note 2) Operating junction and storage temperature range		$R_{\theta A}$	40							K/W
		$T_J$ $T_{STG}$	-55 to +150							$^{\circ}\text{C}$

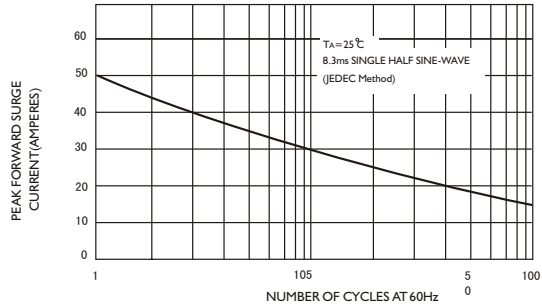


# RATINGS AND CHARACTERISTIC CURVES

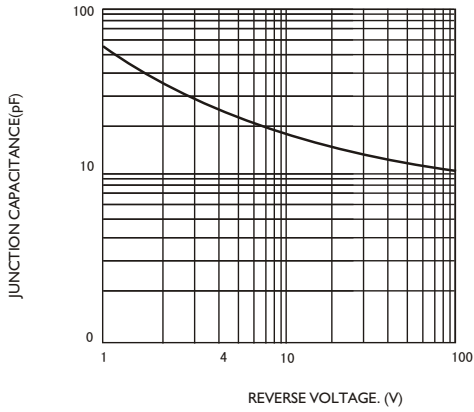
**FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE**



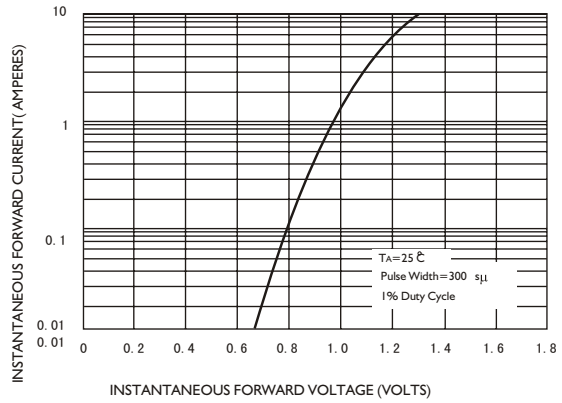
**FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**FIG.4-TYPICAL FORWARD CHARACTERISTICS**



**FIG.5-TYPICAL REVERSE CHARACTERISTICS**

