

SILICON BRIDGE RECTIFIER

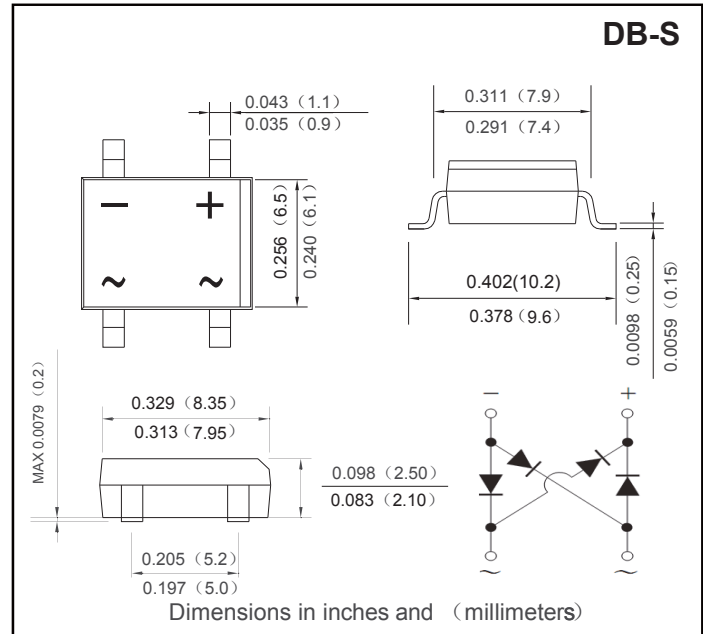
Features

- This series is UL listed under the Recognized component index, file number E142814
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload rating to 50 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265°C/10 seconds at 5 lbs(2.3Kg) tension

Mechanical Data

- Case: DB-S, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number

REVERSE VOLTAGE : 50 --- 1000 V CURRENT: 2.0A



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%.

TYPE NUMBER	SYMBOL	DB201S	DB202S	DB203S	DB204S	DB205S	DB206S	DB207S	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_a=40^\circ C$	IMF(AV)	2.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	10							A ² s
Forward Voltage per element @ $I_F=1.0A$	V_{FM}	1.1							V
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=125^\circ C$	I_R	10 500							μA
Typical Junction Capacitance per leg (2)	C_J	25							pF
Typical Thermal Resistance per leg(1)	$R_{\theta JA}$	110							°C/W
	$R_{\theta JL}$	15							
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							°C

Note:1. Thermal resistance from junction to ambient on P.C. board mounting

2. Measured at 2.0 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

Fig. 1 Derating Curve for Output Rectified Current

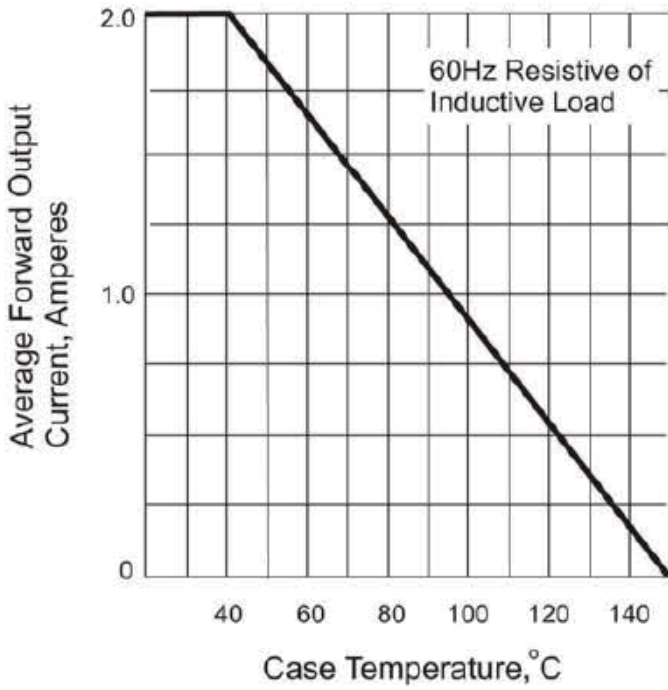


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

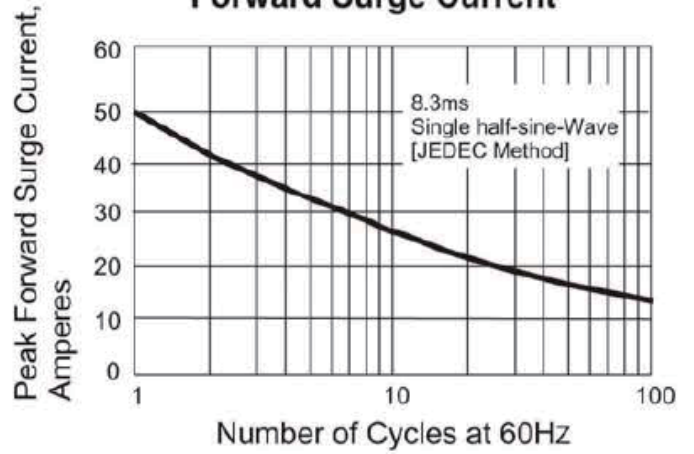


Fig. 4 Typical Revers Characteristics

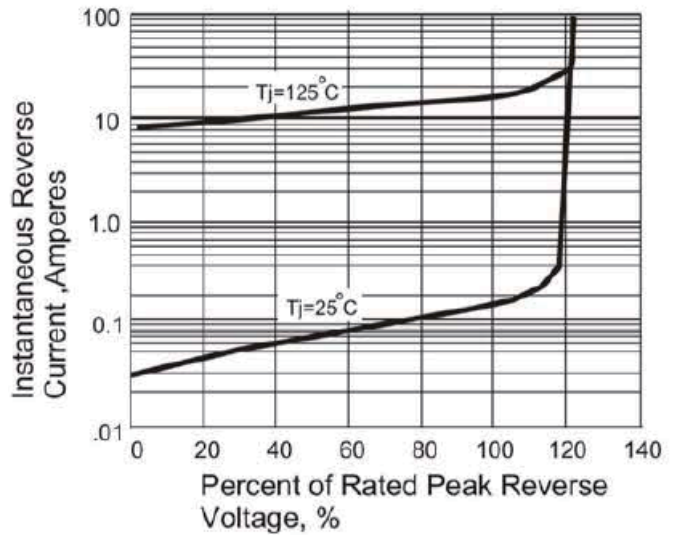


Fig. 3 Typical Instantaneous Forward Characteristics

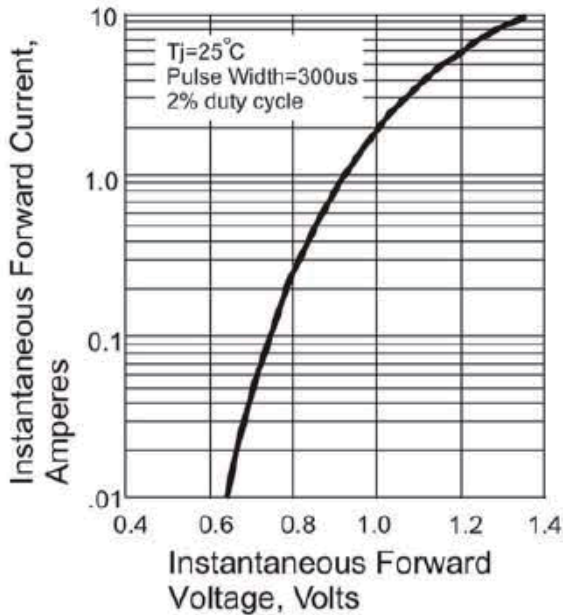


Fig. 5 Typical Junction Capacitance

