

DBS SILICON BRIDGE RECTIFIERV

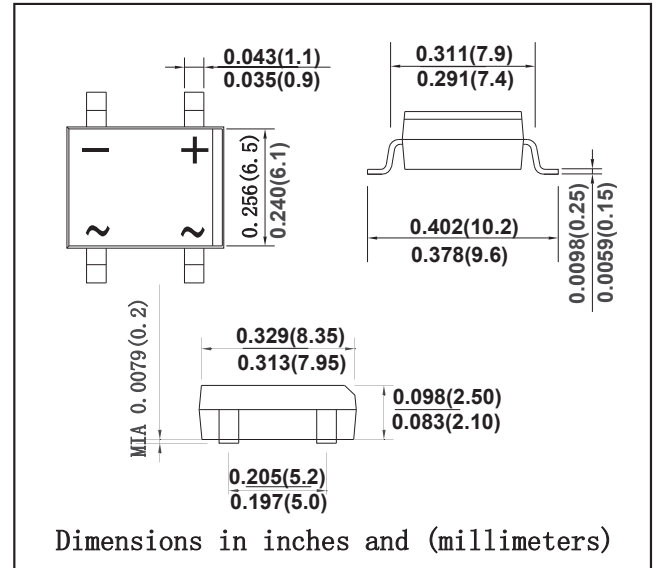
REVERSEVOLTAGE:50 --- 1000V CURRENT: 2.0A

Features

- This series is UL listed under the Recodrized component index ,file number E142814
- The plastic material used carries UndewritersLaboratory flammability recognition 94V-0
- Surge overload rating to 50 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 265℃/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



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25℃ 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 Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
	V _{RWM}								
	V _{DC}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _a =40°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 ² t Rating for Fusing (t < 8.3ms)	I ² t	10							A ² s
Forward Voltage per element @IF=1.0A	V _{FM}	1.1							V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125°C	I _R	10 500							uA
Typical Junction Capacitance per leg (2)	C _J	25							pF
Typical Thermal Resistance per leg(1)	R _{θJA}	110							°C/W
	R _{θJL}	15							
Operating and Storage Temperature Range	T _J ,T _{STG}	-55to+150							°C

Note:1. Thermal resistance from junction to ambemt 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

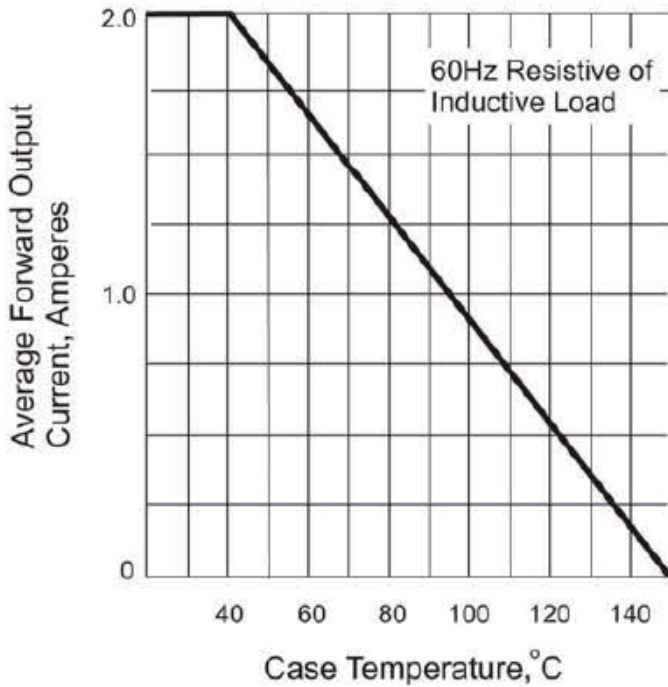


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

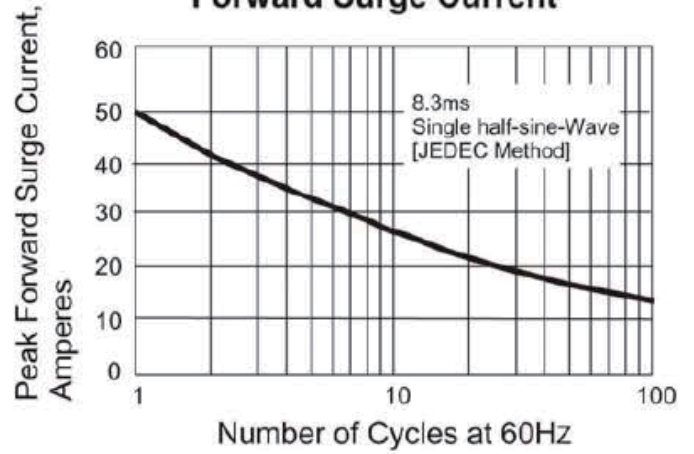


Fig. 4 Typical Revers Characteristics

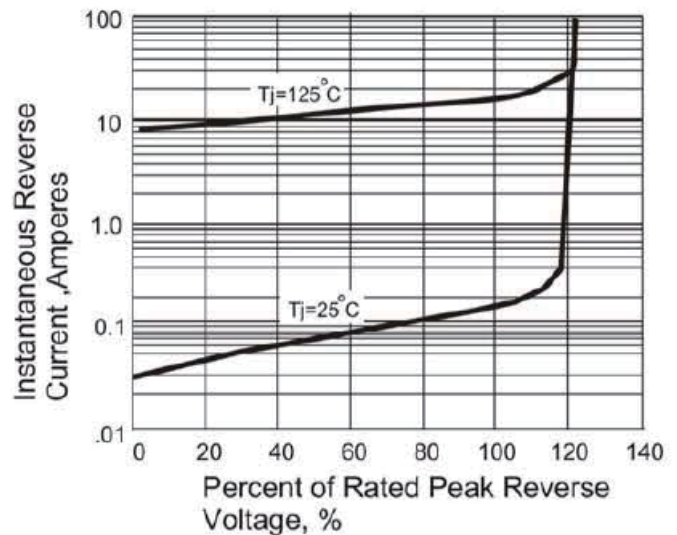


Fig. 3 Typical Instantaneous Forward Characteristics

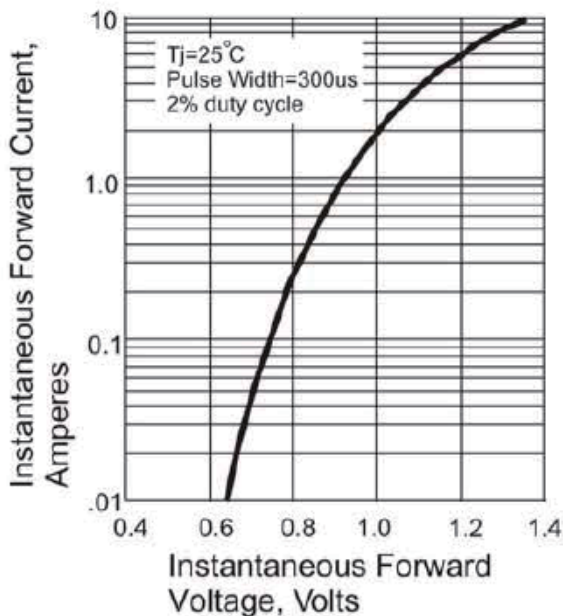


Fig. 5 Typical Junction Capacitance

