

VOLTAGE RANGE: 50Volts TO 1000Volts
CURRENT : 2.0 Ampere

Features

- * The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- * Surge overload ratings to 50 amperes
- * Ideal for Printed Circuit Board Application
- * High temperature soldering guaranteed 265°C/10 seconds at 5 lbs (2.3kg) tension

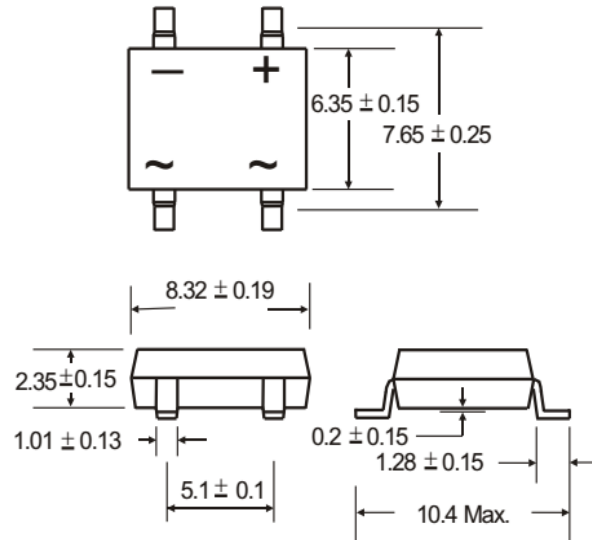
Mechanical Data

- * Case: Molded plastic: DB-S
- * Terminals: Plated leads solderable per MIL-STD-202, method 208
- * Polarity: Marked on body
- * Mounting position: Any
- * Weight: 1.0 grams(approx)



DB-S of Top View

PKG: DB-S



Maximum Ratings and Electrical Characteristics

Rating 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60Hz.

For capacitive load derate current by 20%.

TYPE NUMBER		DB 201S	DB 202S	DB 203S	DB 204S	DB 205S	DB 206S	DB 207S	units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current T _A =40°C <small>note 3</small>	I _{F(AV)}	2.0							A
Peak Forward Surge Current single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							A
Maximum Instantaneous Forward Voltage drop per leg at 1.0A	V _F	1.1							V
Maximum DC Reverse Current at Rate DC Blocking Voltage per element	T _J =25°C	10.0							uA
	T _J =125°C	500							
Rating for fusing (t<8.3ms)	I ² t	10							A ² sec
Typical Thermal Resistance per element <small>Note1</small>	ReJA	110							°C/W
Typical Junction capacitance per element <small>Note2</small>	C _j	25.0							pF
Operating and Storage Temperature Range	T _J , T _{STG}	- 55 ~ + 150							°C

Note: 1.thermal resistance from junction to Ambient on P.C. Board mounting

2. Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

3. R-load on aluminum substrate T_A=25°C.

Typical Characteristics ($T_J = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

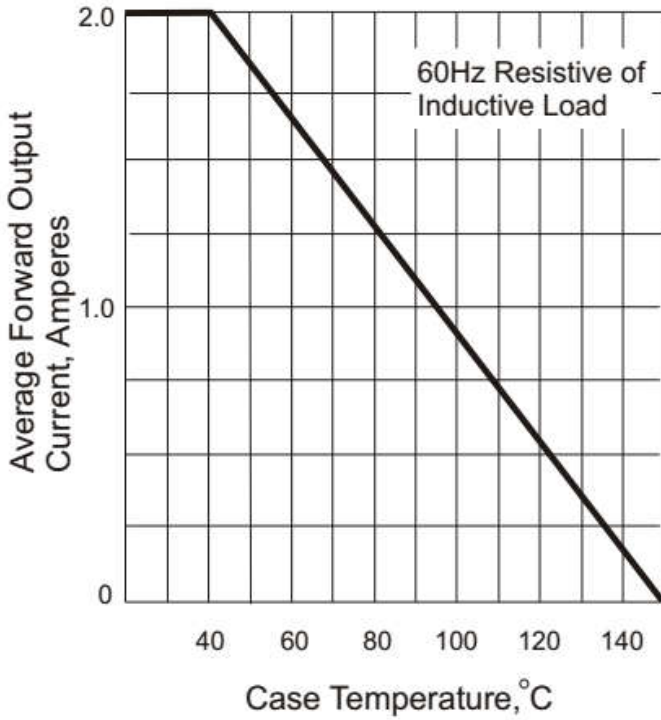


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

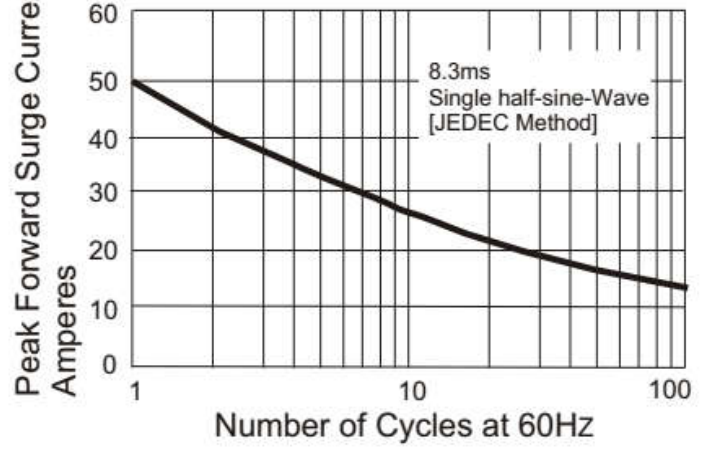


Fig. 4 Typical Revers Characteristics

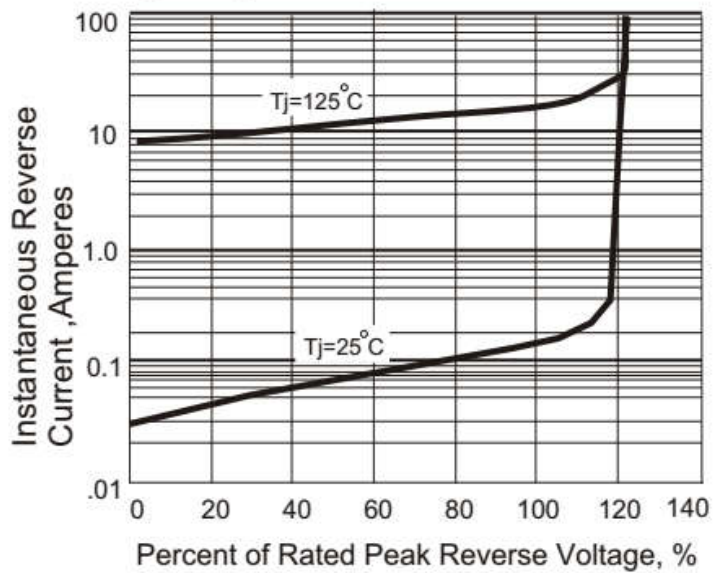


Fig. 3 Typical Instantaneous Forward Characteristics

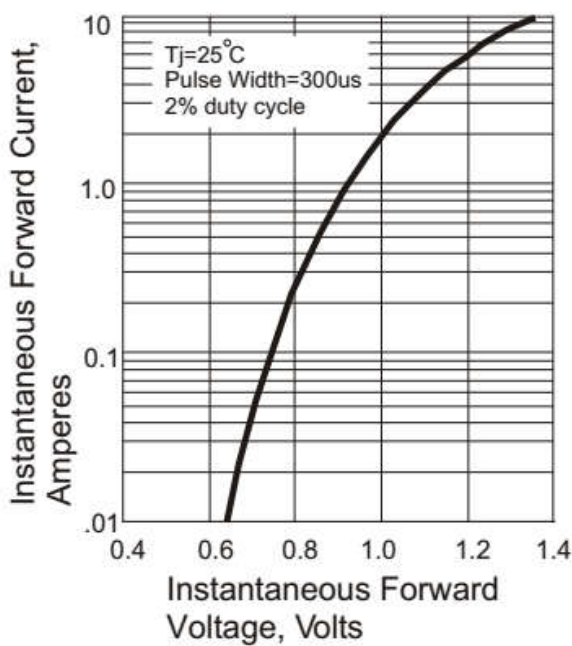


Fig. 5 Typical Junction Capacitance

