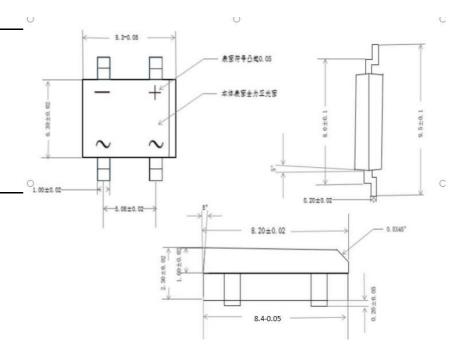
Features

- · Glass passivated die construction
- · Low forward voltage drop
- High current capability
- · High surge current capability
- · Designed for surface mount application ·

Plastic material-UL flammability 94V-0

Mechanical Data

- · Case:DBS, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- · Mounting position: Any
- · Marking: type number
- · Lead Free: For RoHS / Lead Free Version,



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	DB301S	DB302S	DB303S	DB304S	DB305S	DB306S	DB307S	UNITS
Peak Repetitive Reverse Voltage	VRRM								
Working Peak Reverse Voltage DC Blocking Voltage	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	٧
Maximum average forward rectified current @ A=40 °C	lo	3.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	80							А
Forward Voltage per element @IF=1.0A	VFM	1.1							V
Peak Reverse Current @ _{_T} A =25 °C At Rated DC Blocking Voltage @TA =125 °C		5.0							
	lR	500							uA
Typical Junction Capacitance per leg (Note 1)	Сı	35							pF
Typical Thermal Resistance per leg (Note 2)	RөJA	55							°C/W
	Rejl	16							
Operating and Storage Temperature Range	TJ,TsTG	-55to+150							$^{\circ}$

Note:1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5×0.5"(13×13mm)cop



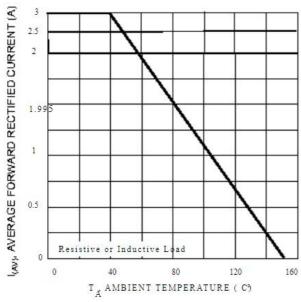


Fig.2Typical Forward Characteristics (per leg)

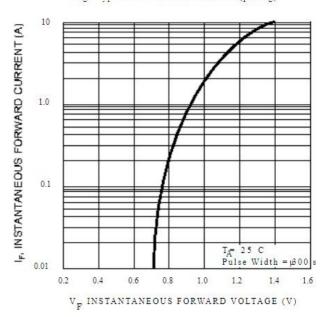


Fig. 3 Maximum Peak Forward Surge Current (per leg)

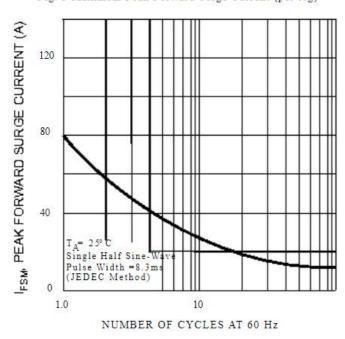
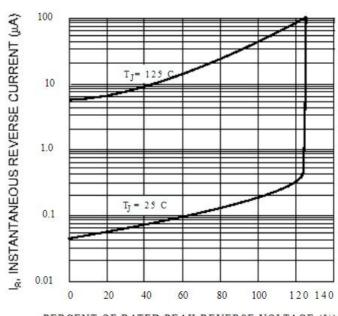


Fig 4 Typical Reverse Characteristics (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)