

## **DB301S thru DB307S**

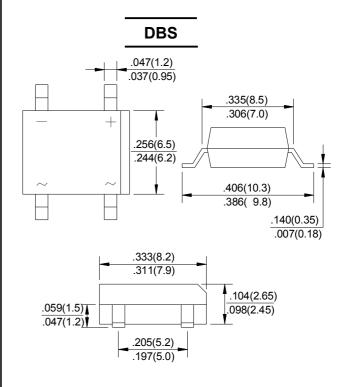
REVERSE VOLTAGE - **50** to **1000**Volts FORWARD CURRENT - **3.0** Ampere

## **FEATURES**

- ●Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

## **MECHANICAL DATA**

- Polarit:As marked on Body
- ●Weight:0.02 ounces,0.38 grams
- •Mounting position:Any



Dimensions in inches and (millimeters)

## 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%

CHARACTERISTICS	SYMBOL	DB301S	DB302S	DB303S	DB304S	DB305S	DB306S	DB307S	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward  Rectified Current @Ta=40°C	I(AV)	3.0							Α
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	lғsм	85							Α
Maximum Forward Voltage at 1.0A DC	VF	1.1					V		
Maximum DC Reverse Current @T $_J$ =25°C at Rated DC Bolcking Voltage @T $_J$ =125°C	lR	10 500							μΑ
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	10.4						$A^2s$	
Typical Junction Capacitance Per Element (Note1)	CJ	25							pF
Typical Thermal Resistance (Note2)	RөJA	40						°C/W	
Operating Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$

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

2.Thermal resistance from junction to ambient mounted on P.C.B. with 0.5\*0.5"(13\*13mm) copper pads.



FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

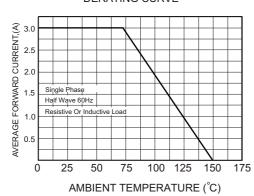


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

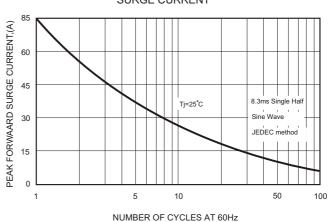


FIG.3-TYPICAL FORWARD

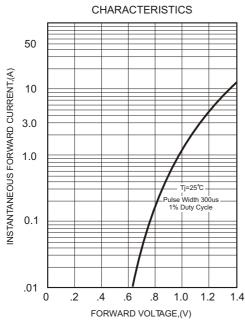


FIG.4-TYPICAL REVERSE

