

# DB301S thru DB307S

REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 3.0 Amperes

### **FEATURES**

- Rating to 1000V PRV
- •Ideal for printed circuit board

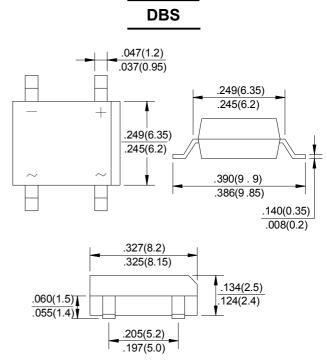
**MECHANICAL DATA** 

• Polarit: As marked on Body

Mounting position: Any

•Weight: 0.02 ounces,0.38 grams

- •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



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ 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							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC .Method)	IFSM	80							A
Maximum Forward Voltage at 3.0A DC	VF	1.0							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C	lr	10 500							μA
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	10.4							A <sup>2</sup> s
Typical Junction capacitance Per Element(Note1)	Сл	25							pF
Typical Thermal Resistance (Note2)	Reja	40							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

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.

### **RATING AND CHARACTERISTIC CURVES DB301S thru DB307S**

