

## SURFACE MOUNT BRIDGE RECTIFIERS

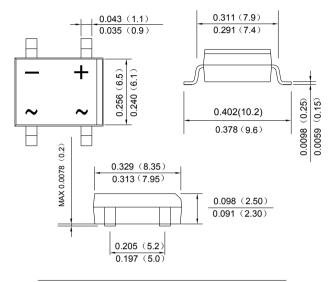
#### **Features**

- · Glass passivated die construction
- · Low forward voltage drop
- High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

#### **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
- · Lead Free: For RoHS / Lead Free Version,

# DB-S



Dimiensions in inches and (milimeters)

### **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 Working Peak Reverse Voltage DC Blocking Voltage	VRRM	50	100	200	400	600	800	1000	V
	VRWM								
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>A</sub> =40°C	lo	3.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	80							Α
Forward Voltage per element @IF=3.0A	Vғм	1.1						V	
Peak Reverse Current @Ta=25℃ At Rated DC Blocking Voltage @Ta=125℃	lR	5.0 500							uA
Typical Junction Capacitance per leg (Note 2)	CJ	25							pF
Typical Thermal Resistance per leg	RөJA	40							°C/W
	Rejl	15							
Operating and Storage Temperature Range	TJ,TsTG	-55to+150							$^{\circ}$

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad. 2.Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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### Characteristic Curves (T<sub>A</sub>=25 °C unless otherwise noted)

Fig. 1 Output Current Derating Curve

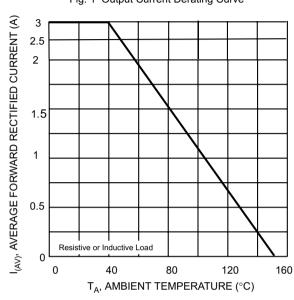


Fig. 3 Maximum Peak Forward Surge Current (per leg)

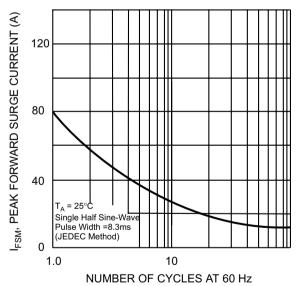


Fig. 2 Typical Forward Characteristics (per leg)

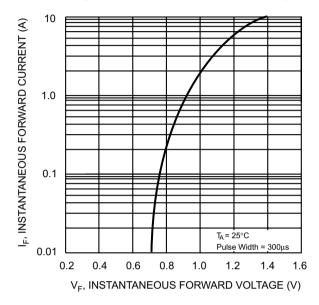


Fig. 4 T ypical Reverse Characteristics (per element)

