

## BRIDGE RECTIFIER



DBS Package

### PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

### Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 3A
- High Surge Current Capability
- Designed For Surface Mount Application

### Benefits

- Case: DBS
- Terminals: Solderable Per MIL-STD-750
- Approx. Weight: 0.234g / 0.00825oz

### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

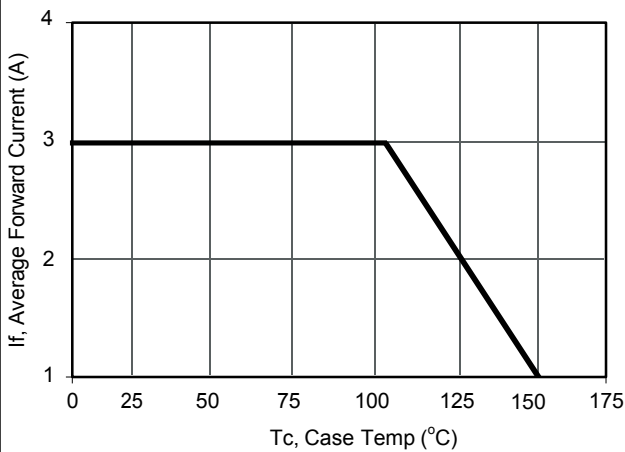
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	DB307S	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	Io	3.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	80	A
I <sup>2</sup> t rating for fusing ( 1ms< t < 8.3ms)	I <sup>2</sup> t	26.5	A <sup>2</sup> S
Maximum Forward Voltage at 1.5 A	VF	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 100	μA
Typical Junction Capacitance (Note1)	Cj	32	pF
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C
Typical thermal resistance (Note 2)	RthJC	32	°C/W

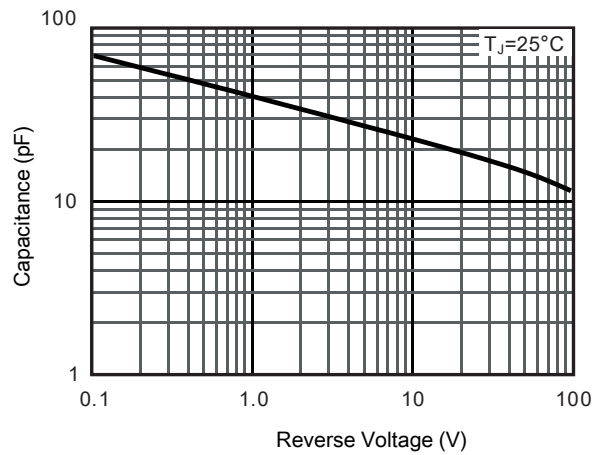
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Thermal resistance from Junction to case, lead and ambient in accordance with JEESD-51. Unit mounted on 15mm\*12mm\*1.6mm AL pad attach 195mm\*195mm\*10mm steel plate

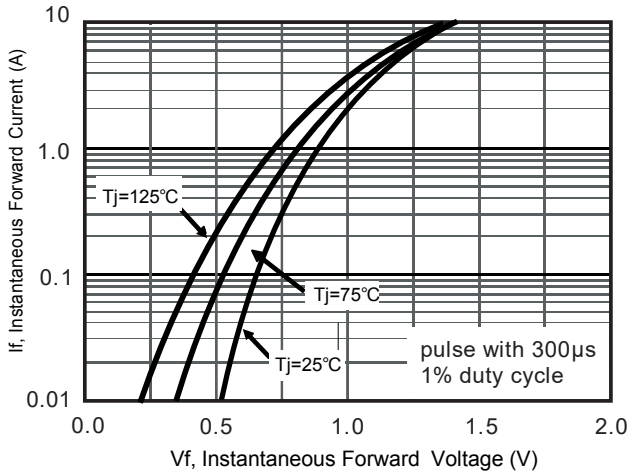
## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



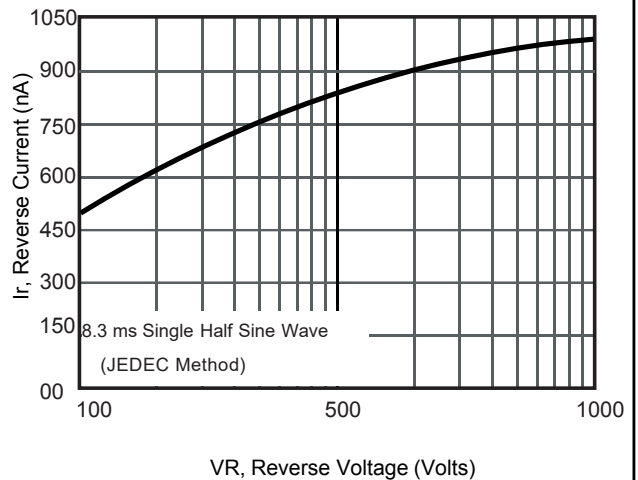
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current

## PACKAGE OUTLINE DIMENSIONS

Outline Dimensions: Dimensions

Case: DBS Series

Dimensions in millimeters

