World Internation (China) Limited

DB107S

25-NOV-2019

BRIDGE RECTIFIER

DBS Package

Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 1A
- High Surge Current Capability
- Designed For Surface Mount Application

PINNING

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

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	DB107S	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current	Io	1.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	40	A
I^2t rating for fusing (1ms< t < 8.3ms)	I^2t	6.6	A^2S
Maximum Forward Voltage at 0.5 A	V_F	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I_R	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	16	°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 JESD-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)

FIG1:Io-Ta Curve

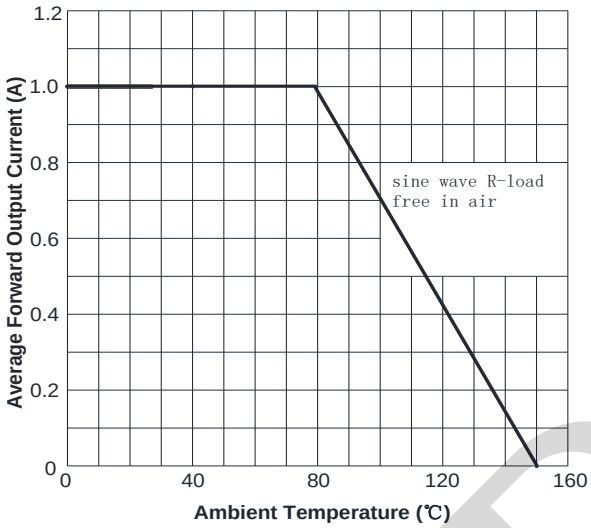


FIG2:Surge Forward Current Capability

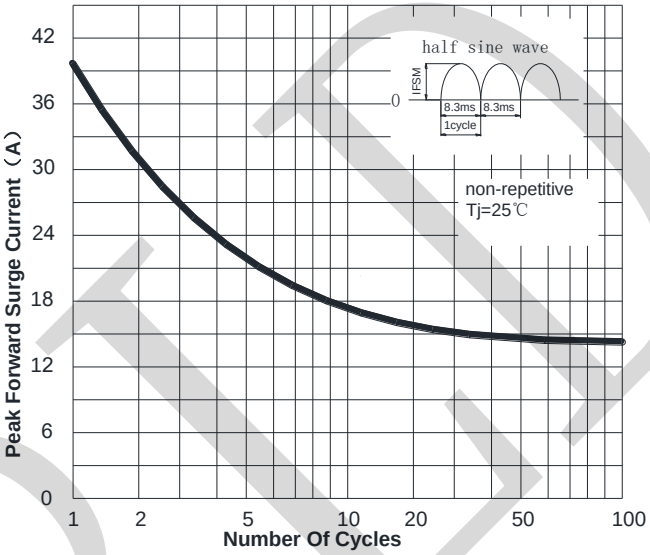


FIG3: Forward Voltage

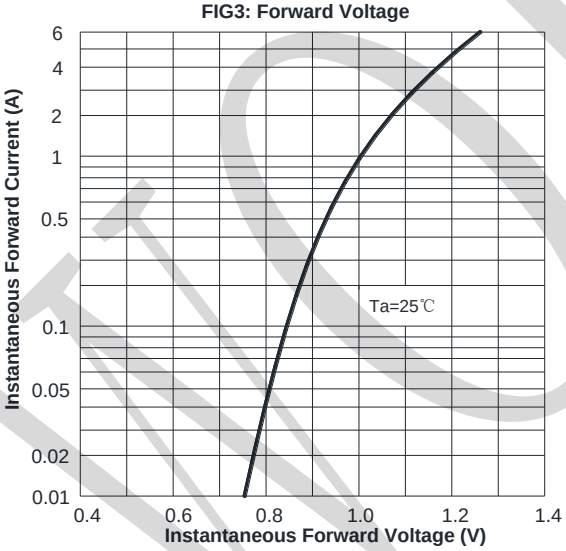
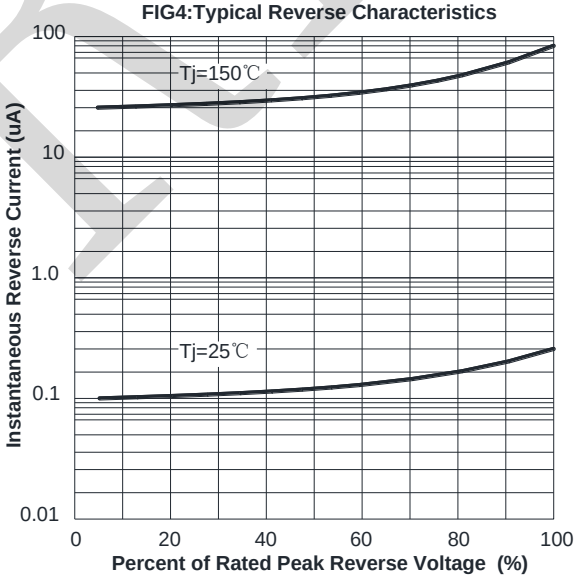


FIG4:Typical Reverse Characteristics



PACKAGE OUTLINE DIMENSIONS

Outline Dimensions: Dimensions

Case: DBS Series

Dimensions in millimeters