SZCJ Shenzhen Changji Semiconductor Co., LTD.

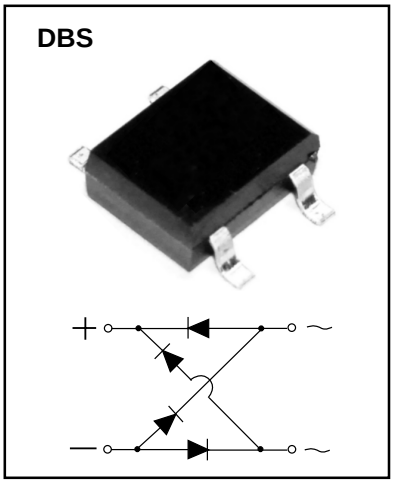
# DBS Plastic-Encapsulate Bridge Rectifier

## DB201S THRU DB207S General Purpose Bridge Rectifier

### Features

- $I_{F(AV)}$ 2A
- $V_{RRM}$ 50V-1000V
- High surge current capability
- Glass passivated chip

DBS



### Applications

- General purpose 1 phase Bridge rectifier applications

### Marking

- DB20XS

  X：From 1 To 7

### Limiting Values (Absolute Maximum Rating)

| Item | Symbol | Unit | Conditions | DB2 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 01S | 02S | 03S | 04S | 05S | 06S | 07S |
| Repetitive Peak Reverse Voltage | $V_{RRM}$ | V | | 50 | 100 | 200 | 400 | 600 | 800 | 1000 |
| Maximum RMS Voltage | $V_{RMS}$ | V | | 35 | 70 | 140 | 280 | 420 | 560 | 700 |
| Average Rectified Output Current | $I_O$ | A | 60Hz sine wave, R-load ,Ta=25 ℃ | 2.0 | | | | | | |
| Surge(Non-repetitive)Forward Current | $I_{FSM}$ | A | 60$H_Z$ half sine wave, 1 cycle, $T_j$=25℃ | 60 | | | | | | |
| Current Squared Time | $I^2t$ | $A^2S$ | 1ms≤t<8.3ms Tj=25℃， Rating of per diode | 14.94 | | | | | | |
| Operation Junction and Storage Temperature Range | $T_J$,$T_{stg}$ | ℃ | | -55 ~+150 | | | | | | |

### Electrical Characteristics（$T_a$=25℃ Unless otherwise specified）

| Item | Symbol | Unit | Test Condition | Max |
|---|---|---|---|---|
| Peak Forward Voltage | $V_{FM}$ | V | $I_{FM}$=2.0A, Pulse measurement, Rating of per diode | 1.1 |
| Peak Reverse Current | $I_{RRM}$ | μA | $V_{RM}$=$V_{RRM}$ , Pulse measurement, Rating of per diode | 10 |
| Thermal Resistance | $R_{\theta J-A}$ | ℃/W | Between junction and ambient | 68 |
| | $R_{\theta J-L}$ | | Between junction and lead | 15 |

## Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

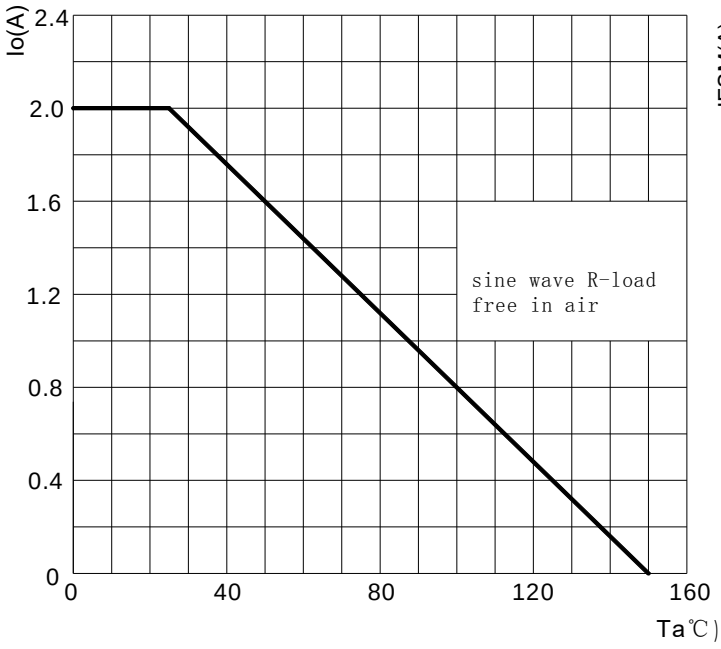



FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

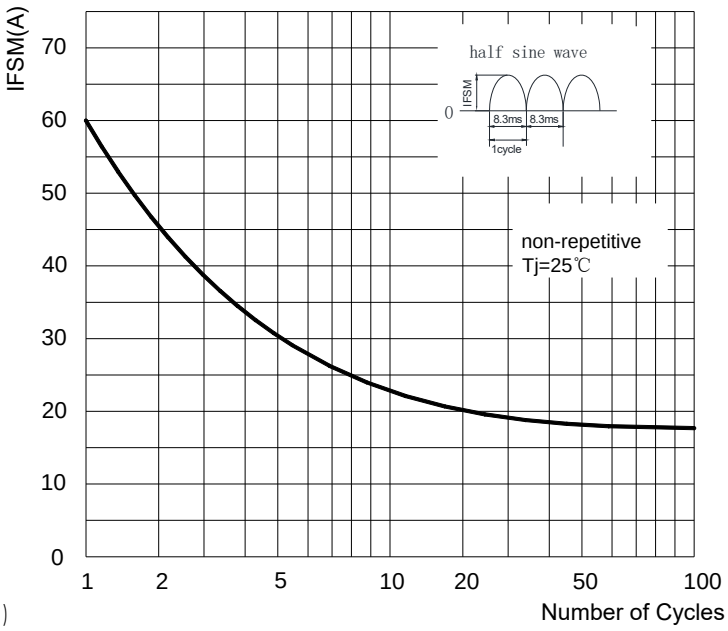



FIG.3: TYPICAL FORWARD CHARACTERISTICS

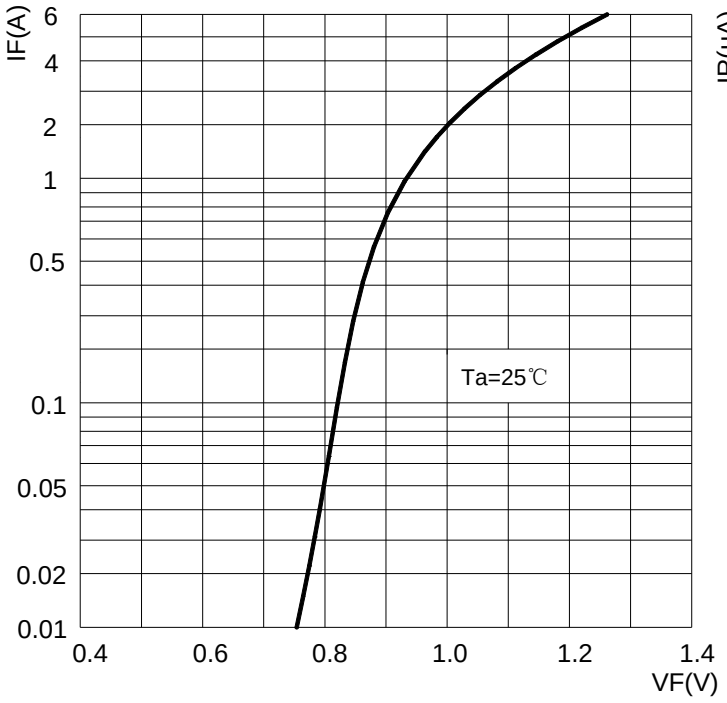
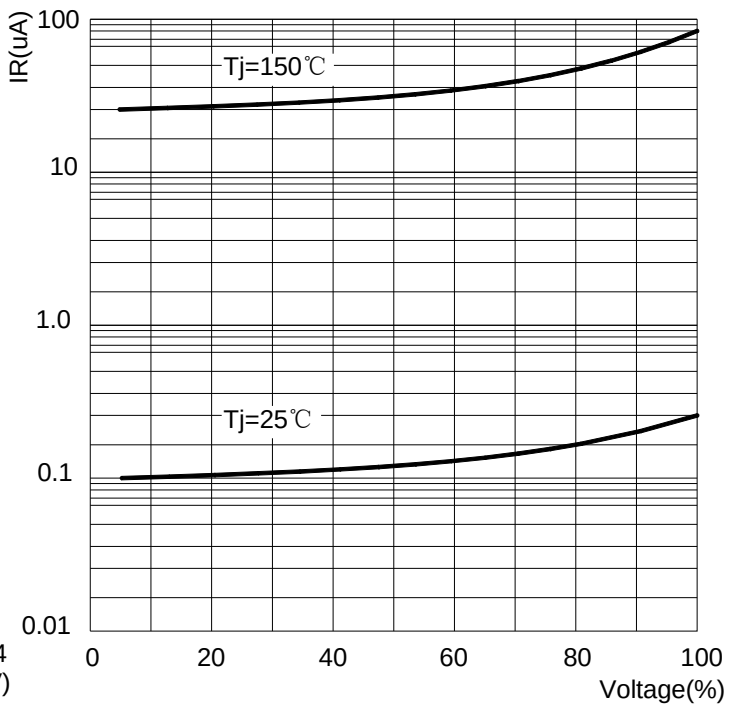
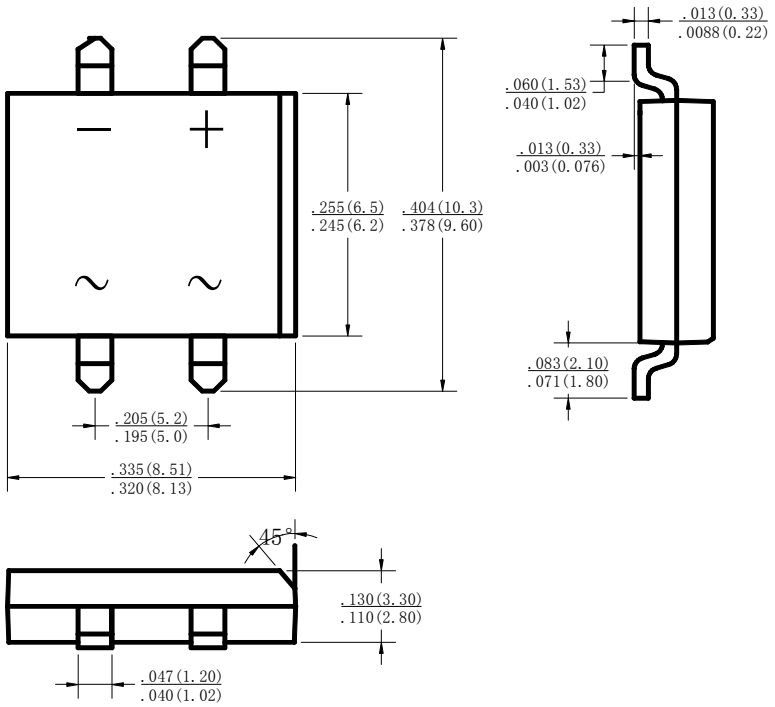



FIG.4:TYPICAL REVERSE CHARACTERISTICS

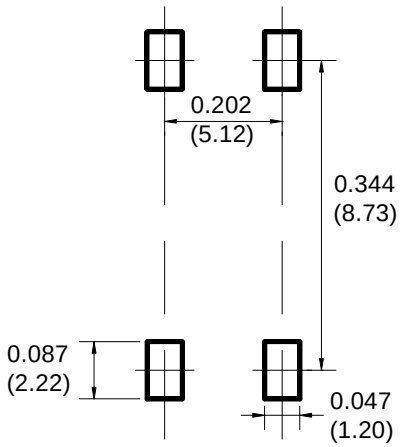


## DBS Package Outline Dimensions




Dimensions in inches and (millimeters)

## DBS Suggested Pad Layout




**Note:**
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.05mm.
3.The pad layout is for reference purposes only.

NOTICE

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