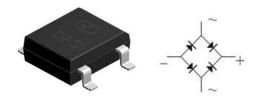


Reverse Voltage 1100V Forward Current 1.5A

Features

- •Glass passivated Bridge Rectifiers
- •Ideal for automated placement
- •High surge current capability
- •Moisture sensitivity: level 1, per J-STD-020
- •High temperature soldering guaranteed: 260°C/10 seconds



DFS

Typical Applications

•General purpose use in ac-to dc bridge full wave rectification for SMPS, lighting, adapter, charger, home appliances, office equipment, and telecommunication applications

Mechanical Data

- •Case: DFS, Epoxy meets UL-94V-0 Flammablity rating
- •Terminals : Matte tin plated(E3 Suffix) leads, solderable per J-STD-002B and JESD22-B102D
- •Polarity : As marked on body

| Maximum Ratings (TA = 25 °C unless otherwise noted) | | | | |
|---|-----------------------------------|---------------|------|--|
| Parameter | | DB157S | Unit | |
| Maximum repetitive peak reverse voltage | | 1100 | V | |
| Maximum RMS voltage | V _{RMS} | 770 | V | |
| Maximum DC blocking voltage | V _{DC} | 1100 | V | |
| Maximum average forward rectified current | I _{F(AV)} | 1.5 | А | |
| Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 50 | А | |
| Rating for fusing (t \leqslant 8.3ms) | | 10.4 | | |
| Operating junction and storage temperature range | T _J , T _{STG} | - 55 to + 150 | | |
| Typical junction capacitance 4.0 V, 1MHz | CJ | 13 | pF | |



| Electrical Characteristics (TA = 25 °C unless otherwise noted) | | | | |
|--|--|-----------------------|--------|-------|
| Parameter | TestConditions | Symbol | DB157S | Unit |
| Maximum instantaneous forward voltage | IF=0.75A,Ta=25°C | V _F | 1.0 | Volts |
| | IF=1.5A,Ta=125°C | | 1.1 | |
| Maximum DC reverse current at rated DC blocking voltage | TA=25°C | | 5 | |
| | TA=125°C | I _R | 50 | μA |
| Typical reverserecovery time | I _F =0.5A,I _R =1.0A, | T _{rr} | 1.9 | |
| | I _{rr} =0.25A | | | uS |
| Typical thermal resistance ¹⁾ | juntion to ambient | R _{eja} | 45 | |
| | juntion to case | $R_{	extsf{	heta}JC}$ | 15 | °C/W |

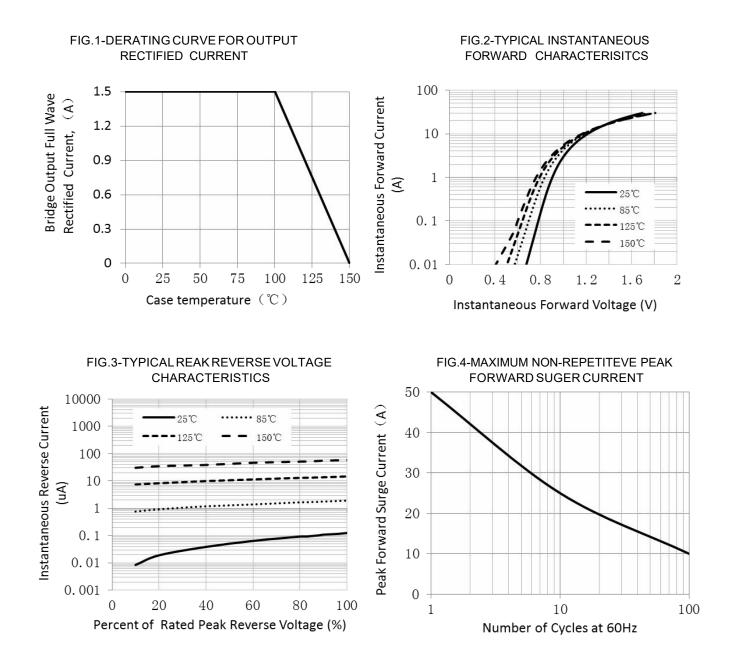
Note:

1)The thermal resistance from junction to ambient, case or mount, mounted on P.C.B with 13×13mm copper pads, 2 OZ, FR4 PCB



Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

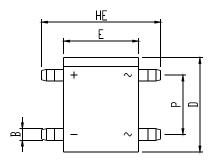




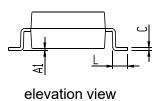
Package Outline Dimensions

in inches (millimeters)

First angle projection



top view



| | | unit:mm | | | | unit:inch |
|---|-----|---------|-------|-----|--------|-----------|
| | Dim | Min | Max | Dim | Min | Max |
| 1 | А | 3.05 | 3.30 | А | 0.120 | 0.130 |
| | A1 | 0.076 | 0.33 | A1 | 0.003 | 0.013 |
| | В | 1.02 | 1.20 | В | 0.040 | 0.047 |
| | С | 0.22 | 0.33 | С | 0.0087 | 0.013 |
| | D | 8.00 | 8.51 | D | 0.315 | 0.335 |
| | E | 6.20 | 6.50 | E | 0.244 | 0.256 |
| - | HE | 9.80 | 10.30 | HE | 0.386 | 0.406 |
| | L | 1.02 | 1.52 | L | 0.040 | 0.060 |
| | Р | 5.00 | 5.20 | Р | 0.197 | 0.205 |

right elevation

Revision History

| Document Version | Date of release | Discroption of changes | |
|------------------|-----------------|------------------------|--|
| Rev.A | 2021/3/21 | Released Datasheet | |
| Rev.B | 2023/12/21 | Modify document format | |



DB157S GOOD-ARK Electronics

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