

CHONGQING CLOUDCHILD TECHNOLOGY CO., LTD

DB Plastic-Encapsulate Bridge Rectifier

DB101-107 Bridge Rectifier

Features

- I_O 1A
- V_{RRM} 50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity:Color band denotes cathode
- AEC Q101 Qualified

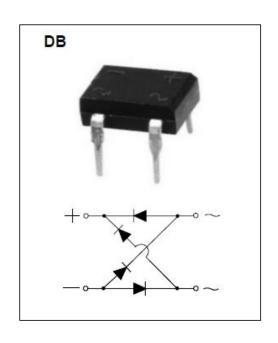
Applications

General purpose 1 phase Bridge rectifier applications

MARKING

DB10X

X: From 1 To 7



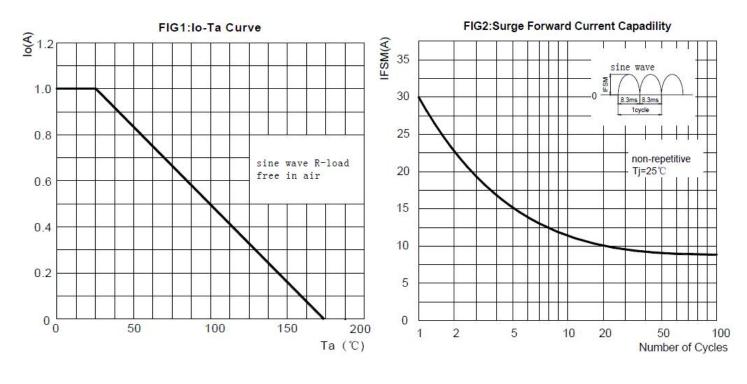
ABSOLUTE MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

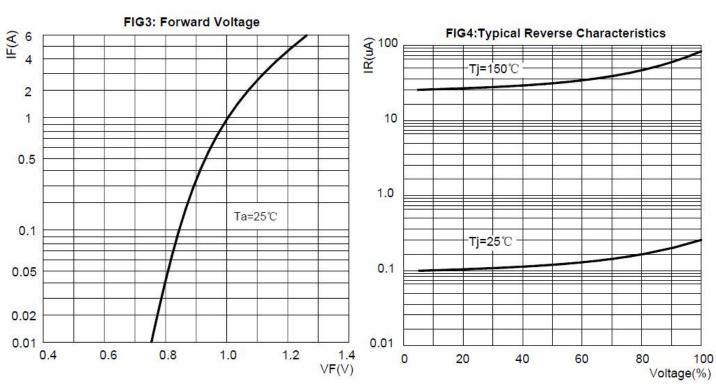
| ABOUT II MAXIMOM RATINGO (1a 20 0 dinoso otnorwise noted) | | | | | | | | | | | |
|---|------------------|------------------|--|-----------|-----|-----|-----|-----|-----|------|--|
| ltem | Symbol | Unit | Conditions | DB1 | | | | | | | |
| | | | | 01 | 02 | 03 | 04 | 05 | 06 | 07 | |
| Repetitive 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 | lo | А | 60Hz sine wave, R-load,Ta=25℃ | 1 | | | | | | | |
| Surge(Non- repetitive)Forward Current | I _{FSM} | Α | 60H _z sine wave, 1 cycle, T _j =25℃ | 30 | | | | | | | |
| Current Squared Time | l²t | A ² S | 1ms≤t<8.3ms Tj=25℃,Rating of per diode | 3.7 | | | | | | | |
| Storage Temperature | T _{stg} | $^{\circ}$ | | -55 ~+175 | | | | | | | |
| Junction Temperature | Tj | $^{\circ}$ | | -55 ~+175 | | | | | | | |

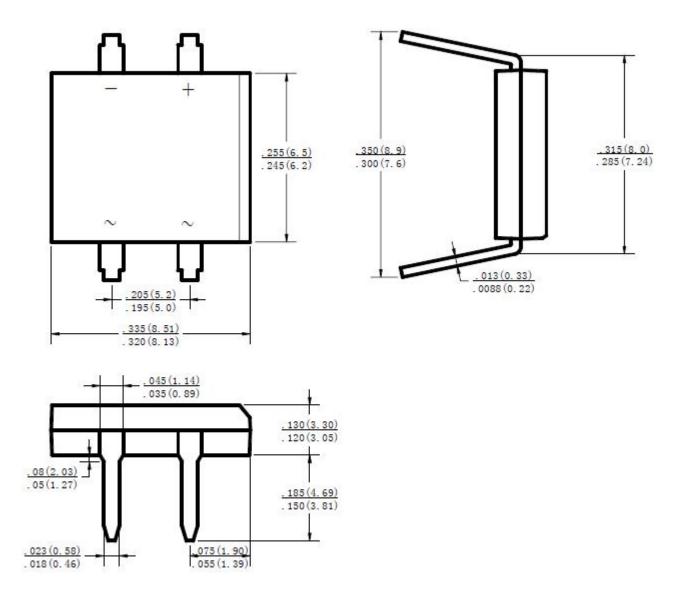
ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise noted)

| Item | Symbol | Unit | Test Condition | Max | |
|----------------------|------------------|------------|---|------|--|
| Peak Forward Voltage | V_{FM} | V | I _{FM} =0.5A, Pulse measurement, Rating of per diode | 1.05 | |
| Peak Reverse Current | I _{RRM} | μ Α | $V_{\text{RM}} = V_{\text{RRM}}$, Pulse measurement, Rating of per diode | 10 | |
| | R θ J-A | | Between junction and ambient, On glass-epoxi substrate | 68 | |
| Thermal Resistance | R θ J-L | °C/W | Between junction and lead | 15 | |

Typical Electrical and Thermal Characteristics







Dimensions in inches and (millimeters)

NOTICE

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