

## Fast Bridge Rectifier

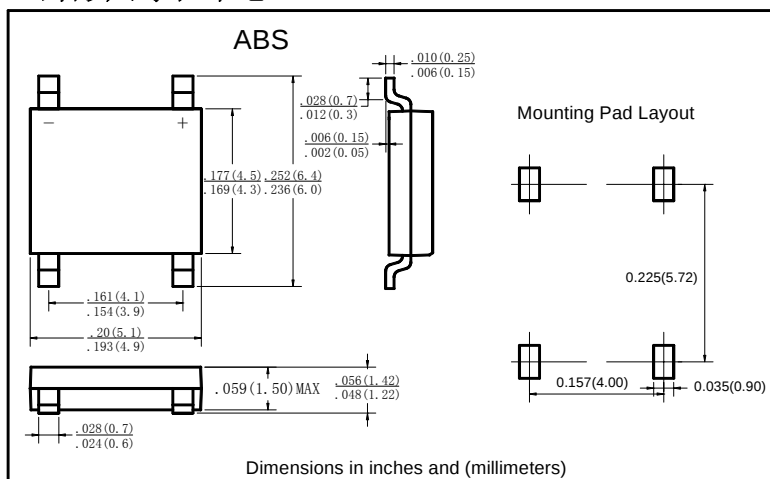
### ■特征 Features

- $I_O$  1A
- $V_{RRM}$  100V~1000V
- 玻璃钝化芯片  
Glass passivated chip
- 耐正向浪涌电流能力高  
High surge forward current capability

### ■用途 Applications

- 作一般电源单相桥式整流用  
General purpose 1 phase Bridge rectifier applications

### ■外形尺寸和印记 Outline Dimensions and Mark



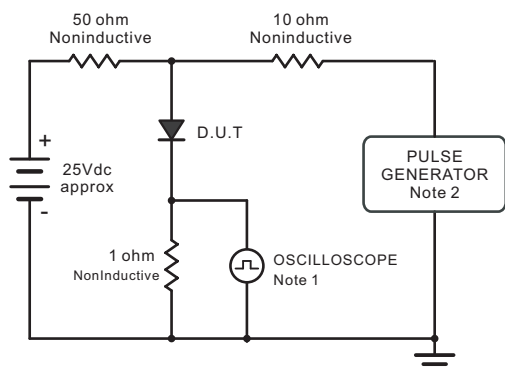
### ■极限值（绝对最大额定值）

#### Limiting Values (Absolute Maximum Rating)

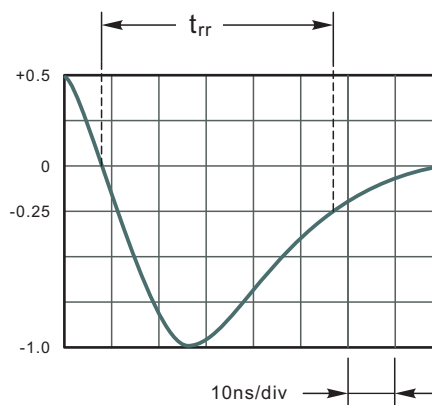
| Parameter                                                                                                       | Symbols                              | UABS1      | UABS2 | UABS4 | UABS6 | UABS8 | UABS10 | Units |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|-------|-------|-------|-------|--------|-------|
| Maximum Repetitive Peak Reverse Voltage                                                                         | V <sub>RRM</sub>                     | 100        | 200   | 400   | 600   | 800   | 1000   | V     |
| Maximum RMS voltage                                                                                             | V <sub>RMS</sub>                     | 70         | 140   | 280   | 420   | 560   | 700    | V     |
| Maximum DC Blocking Voltage                                                                                     | V <sub>DC</sub>                      | 100        | 200   | 400   | 600   | 800   | 1000   | V     |
| Average Rectified Output Current<br>at T <sub>c</sub> = 125 °C                                                  | I <sub>O</sub>                       | 1.0        |       |       |       |       |        | A     |
| Peak Forward Surge Current 8.3 ms Single Half<br>Sine Wave Superimposed on Rated Load<br>(JEDEC Method)         | I <sub>FSM</sub>                     | 35         |       |       |       |       |        | A     |
| Maximum Forward Voltage at 1.0 A                                                                                | V <sub>F</sub>                       | 1.0        |       | 1.3   | 1.5   |       |        | V     |
| Maximum DC Reverse Current    T <sub>a</sub> = 25 °C<br>at Rated DC Blocking Voltage    T <sub>a</sub> = 125 °C | I <sub>R</sub>                       | 5.0<br>100 |       |       |       |       |        | μA    |
| Typical Junction Capacitance <sup>1)</sup>                                                                      | C <sub>j</sub>                       | 18         |       |       |       |       |        | pF    |
| Maximum Reverse Recovery Time <sup>2)</sup>                                                                     | t <sub>rr</sub>                      | 50         |       |       | 75    |       |        | ns    |
| Typical Thermal Resistance <sup>3)</sup>                                                                        | R <sub>θJA</sub><br>R <sub>θJC</sub> | 72<br>20   |       |       |       |       |        | °C/W  |
| Operating and Storage Temperature Range                                                                         | T <sub>j</sub> , T <sub>stg</sub>    | -55 ~ +150 |       |       |       |       |        | °C    |

## ■特性曲线（典型） Characteristics(Typical)

**Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram**

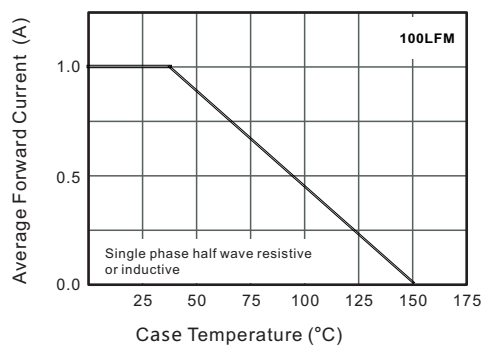


Note: 1. Rise Time = 7ns, max.  
Input Impedance = 1megohm, 22pF.  
2. Rise Time = 10ns, max.  
Source Impedance = 50 ohms.

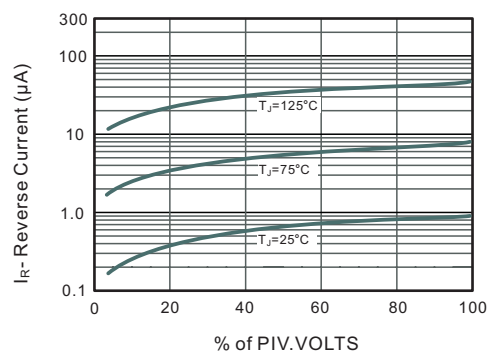


Set time Base for 10ns/div

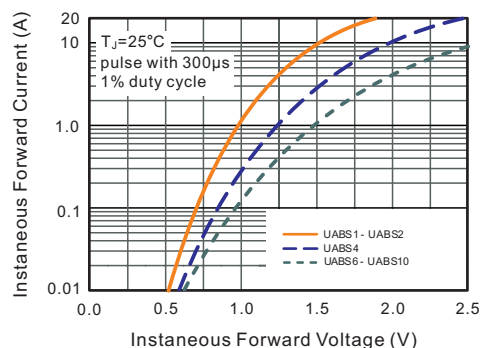
**Fig.2 Maximum Average Forward Current Rating**



**Fig.3 Typical Reverse Characteristics**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Maximum Non-Repetitive Peak Forward Surge Current**

