

自主封測 品質把控 售後保障

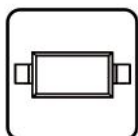
WEB | [WWW.TDSEMIC.COM](http://WWW.TDSEMIC.COM)



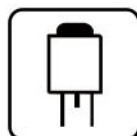
電源管理



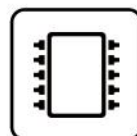
顯示驅動



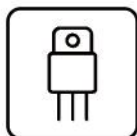
二三極管



LDO穩壓器



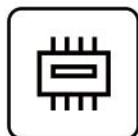
觸摸芯片



MOS管



運算放大器



存儲芯片



MCU



串口通信

## SS34B-TD

### 產品規格說明書

## SS32 THRU SS320

Surface Mount Schottky Barrier Rectifier  
Reverse Voltage - 20 to 200 V  
Forward Current - 3 A

### FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

### MECHANICAL DATA

- Case: SMB
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 95mg ( 0.0034oz )

### PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



### 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            | SS32       | SS34 | SS36 | SS38     | SS310 | SS312 | SS315 | SS320 | Units |
|--------------------------------------------------------------------------------------------------------------|--------------------|------------|------|------|----------|-------|-------|-------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage                                                                      | V <sub>RRM</sub>   | 20         | 40   | 60   | 80       | 100   | 120   | 150   | 200   | V     |
| Maximum RMS voltage                                                                                          | V <sub>RMS</sub>   | 14         | 28   | 42   | 56       | 70    | 84    | 105   | 140   | V     |
| Maximum DC Blocking Voltage                                                                                  | V <sub>DC</sub>    | 20         | 40   | 60   | 80       | 100   | 120   | 150   | 200   | V     |
| Maximum Average Forward Rectified Current                                                                    | I <sub>F(AV)</sub> | 3.0        |      |      |          |       |       |       |       | A     |
| Peak Forward Surge Current, 8.3ms<br>Single Half Sine-wave Superimposed<br>on Rated Load (JEDEC method)      | I <sub>FSM</sub>   | 80         |      |      |          |       |       |       |       | A     |
| Max Instantaneous Forward Voltage at 3 A                                                                     | V <sub>F</sub>     | 0.55       |      | 0.70 |          | 0.85  |       | 0.95  |       | V     |
| Maximum DC Reverse Current    T <sub>a</sub> = 25°C<br>at Rated DC Reverse Voltage    T <sub>a</sub> = 100°C | I <sub>R</sub>     | 0.5<br>5   |      |      | 0.3<br>3 |       |       |       |       | mA    |
| Typical Junction Capacitance <sup>(1)</sup>                                                                  | C <sub>j</sub>     | 450        |      |      | 400      |       |       |       |       | pF    |
| Typical Thermal Resistance <sup>(2)</sup>                                                                    | R <sub>θJA</sub>   | 60         |      |      |          |       |       |       |       | °C/W  |
| Operating Junction Temperature Range                                                                         | T <sub>j</sub>     | -55 ~ +150 |      |      |          |       |       |       |       | °C    |
| Storage Temperature Range                                                                                    | T <sub>stg</sub>   | -55 ~ +150 |      |      |          |       |       |       |       | °C    |

( 1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

( 2 ) P.C.B. mounted with 2.0" X 2.0" ( 5 X 5 cm ) copper pad areas.

Fig.1 Forward Current Derating Curve

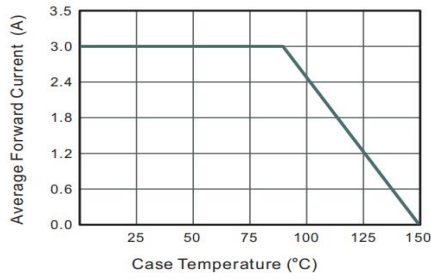


Fig.2 Typical Reverse Characteristics

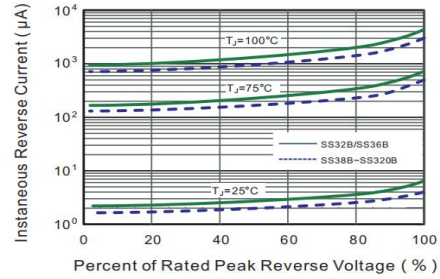


Fig.3 Typical Forward Characteristic

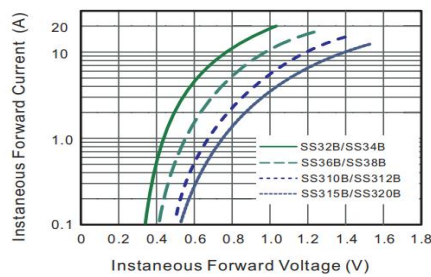


Fig.4 Typical Junction Capacitance

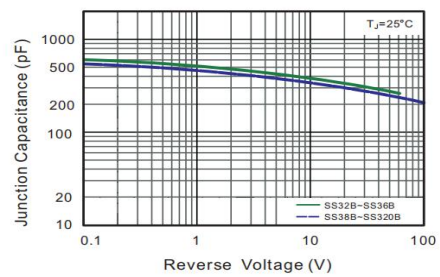


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

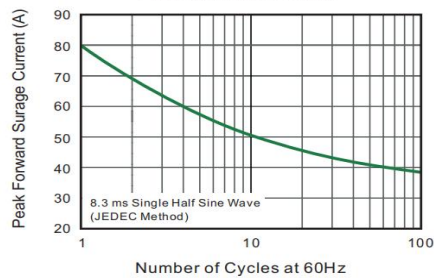
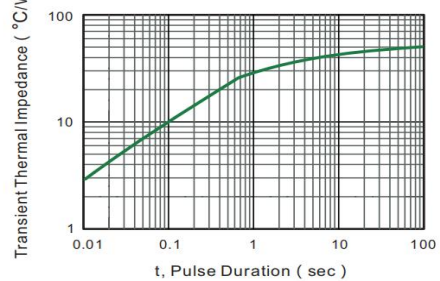


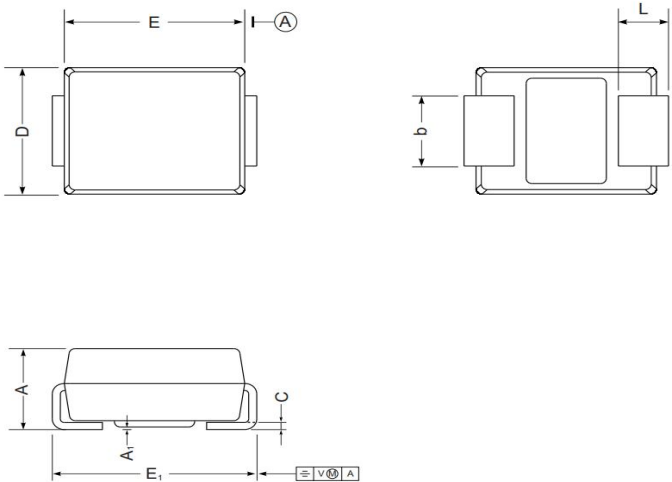
Fig.6 Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

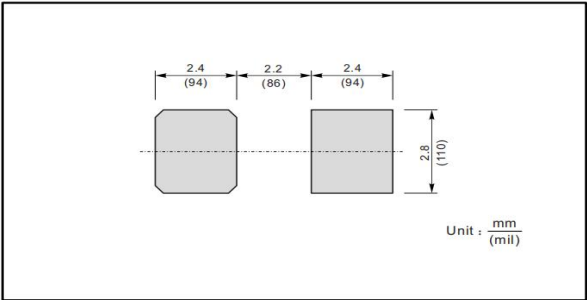
SMB



SMB mechanical data

| UNIT |     | A    | E    | D    | E <sub>1</sub> | A <sub>1</sub> | L   | C     | b   |
|------|-----|------|------|------|----------------|----------------|-----|-------|-----|
| mm   | max | 2.44 | 4.70 | 3.94 | 5.59           | 0.20           | 1.5 | 0.305 | 2.2 |
|      | min | 2.13 | 4.06 | 3.3  | 5.08           | 0.05           | 0.8 | 0.152 | 1.9 |
| mil  | max | 96   | 185  | 155  | 220            | 7.9            | 59  | 12    | 87  |
|      | min | 84   | 160  | 130  | 200            | 2.0            | 32  | 6     | 75  |

The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| SS32B       | SS32         |
| SS34B       | SS34         |
| SS36B       | SS36         |
| SS38B       | SS38         |
| SS310B      | SS310        |
| SS312B      | SS312        |
| SS315B      | SS315        |
| SS320B      | SS320        |