



**FUKUCOM COMPANY LTD.**

**福 靈 有 限 公 司**

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## RB521S-30

### SILICON EPITAXIAL PLANAR SCHOTTKY BARRIER DIODE

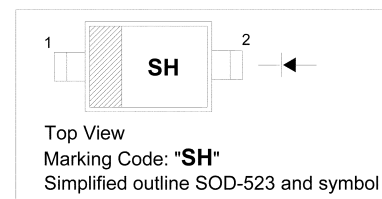
Low Current Rectification and High Speed Switching Application

#### Features

- Extremely small surface mounting type

#### PINNING

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

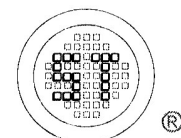


#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

| Parameter                                  | Symbol    | Value       | Unit             |
|--|-----------|-------------|------------------|
| DC Reverse Voltage                         | $V_R$     | 30          | V                |
| Mean Rectifying Current                    | $I_O$     | 200         | mA               |
| Peak Forward Surge Current (60Hz for Cyc.) | $I_{FSM}$ | 1           | A                |
| Junction Temperature                       | $T_j$     | 125         | $^\circ\text{C}$ |
| Storage Temperature Range                  | $T_s$     | -40 to +125 | $^\circ\text{C}$ |

#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter                                   | Symbol | Min. | Max. | Unit          |
|---|--------|------|------|---------------|
| Forward Voltage<br>at $I_F = 200\text{ mA}$ | $V_F$  | -    | 0.5  | V             |
| Reverse Current<br>at $V_R = 10\text{ V}$   | $I_R$  | -    | 30   | $\mu\text{A}$ |



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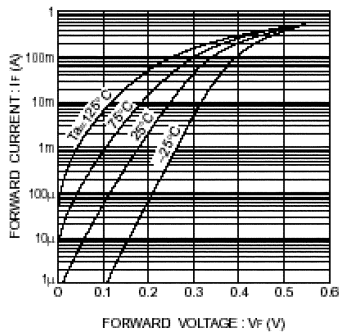


Fig. 1 Forward characteristics

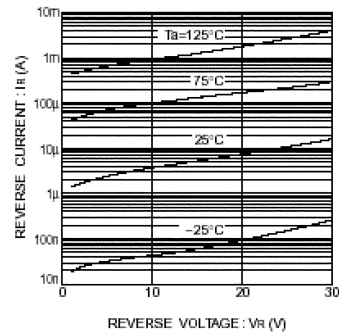


Fig. 2 Reverse characteristics

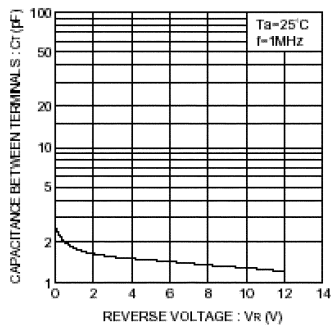


Fig. 3 Capacitance between terminals characteristics

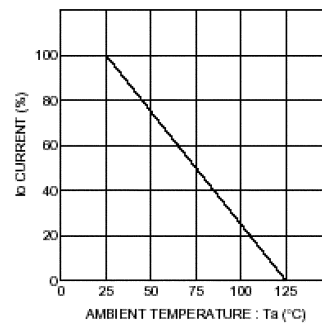
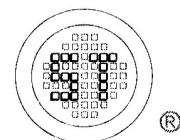


Fig. 4 Derating curve (mounting on glass epoxy PCBs)



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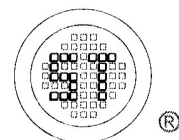
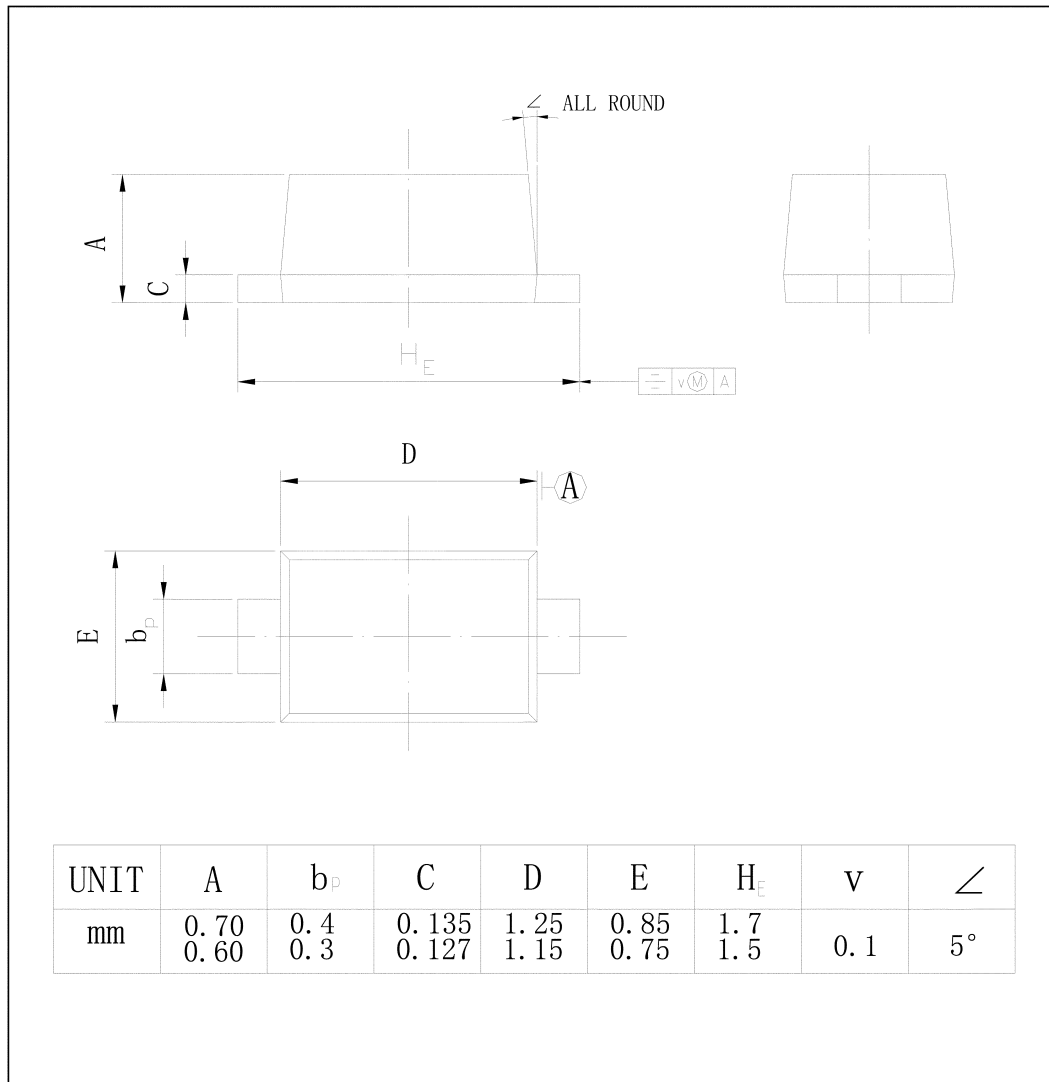
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**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-523



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