

1SS373

SILICON EPITAXIAL SCHOTTKY BARRIER DIODE

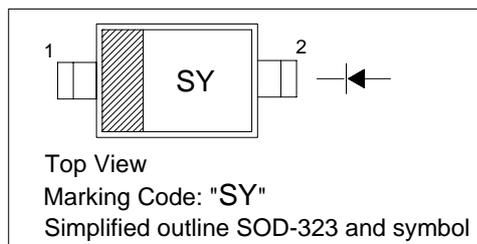
High Speed Switching Application

Features

- Low forward voltage:
 $V_F = 0.23V$ (typ.) @ $I_F = 5mA$

PINNING

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

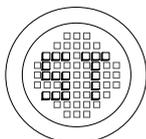


Absolute Maximum Ratings ($T_j = 25^\circ C$)

| Parameter | Symbol | Value | Unit |
|--------------------------------|-----------|-------------|------|
| Maximum (peak) Reverse Voltage | V_{RM} | 15 | V |
| Reverse Voltage | V_R | 10 | V |
| Maximum (peak) Forward Current | I_{FM} | 200 | mA |
| Average Forward Current | I_O | 100 | mA |
| Surge Current (10ms) | I_{FSM} | 1 | A |
| Power Dissipation | P_{tot} | 150 | mW |
| Junction Temperature | T_J | 125 | °C |
| Storage Temperature Range | T_s | -55 to +125 | °C |
| Operating Temperature Range | T_{opr} | -40 to +100 | °C |

Characteristics at $T_j = 25^\circ C$

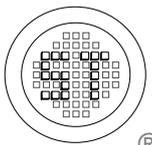
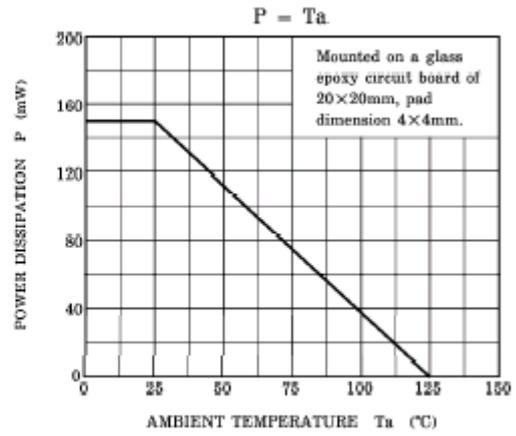
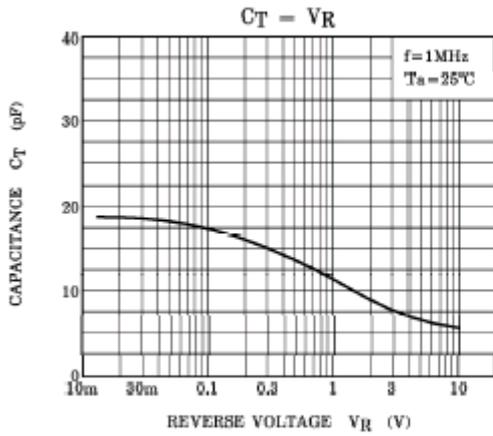
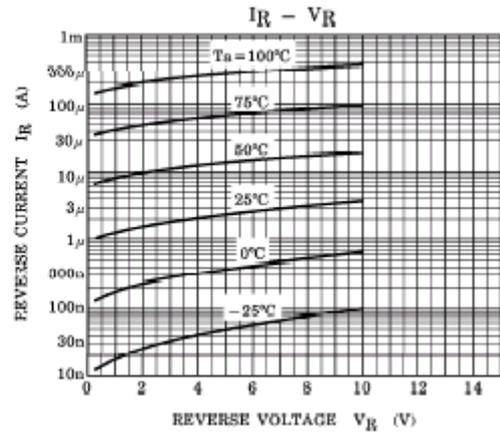
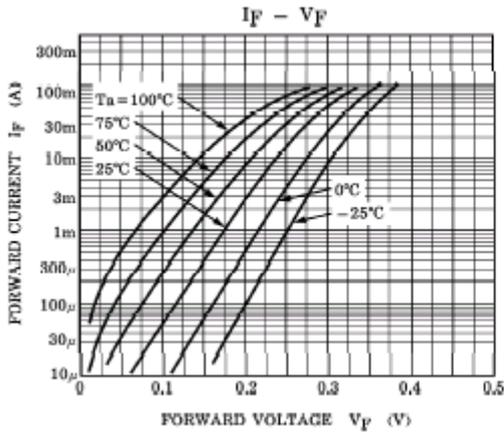
| Parameter | Test Conditions | Symbol | Min | Typ | Max | Unit |
|-------------------|-----------------|--------|-----|------|------|---------|
| Forward Voltage | $I_F = 1mA$ | V_F | - | 0.18 | - | V |
| | $I_F = 5mA$ | V_F | - | 0.23 | 0.30 | V |
| | $I_F = 100mA$ | V_F | - | 0.35 | 0.50 | V |
| Reverse Current | $V_R = 10V$ | I_R | - | - | 20 | μA |
| Total Capacitance | $f = 1MHz$ | C_T | - | 20 | 40 | pF |



®

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SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



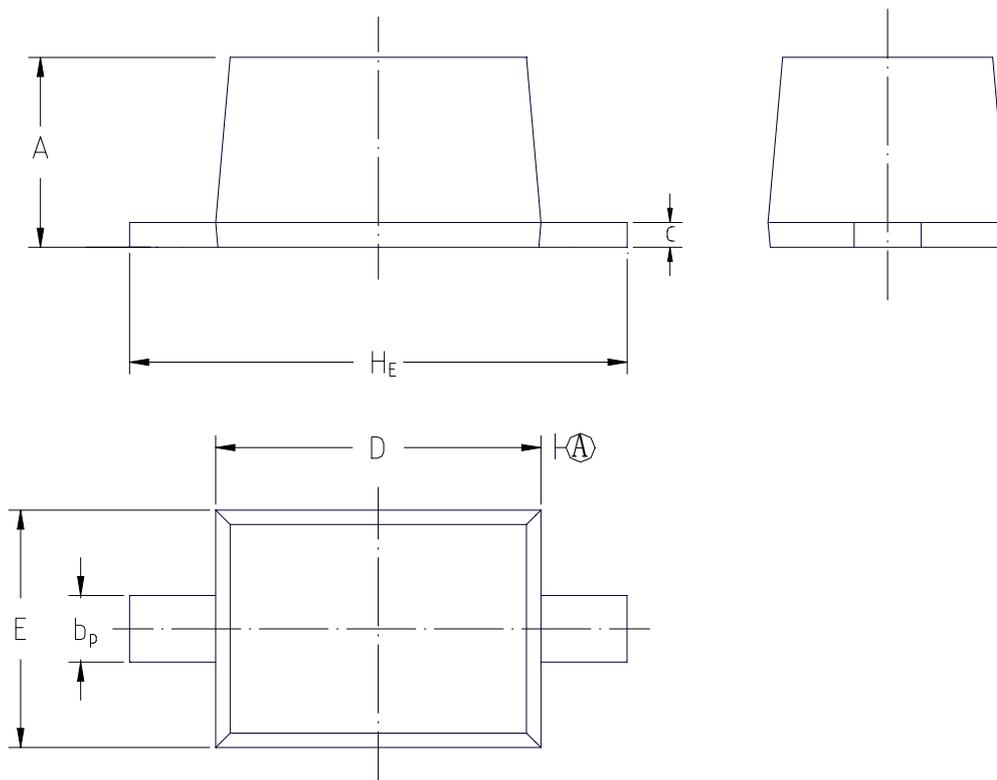
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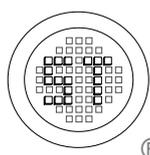
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



| UNIT | A | b_p | c | D | E | H_E |
|------|--------------|--------------|--------------|--------------|--------------|--------------|
| mm | 1.10 0.80 | 0.40 0.25 | 0.15 0.00 | 1.80 1.60 | 1.35 1.15 | 2.80 2.30 |

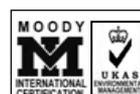


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