

1SS367

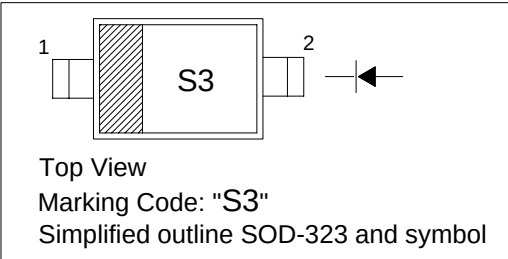
SILICON EPITAXIAL S CHOTTKY BARRIER DIODE  
High Speed Switching Applicatio

Features

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

PINNING

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

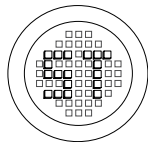


Absolute Maximum Ratings (  $T_j = 25^\circ C$  )

| 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              | $P_{tot}$ | 200         | 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  $T_j = 25^\circ C$

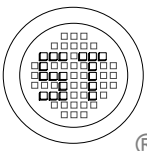
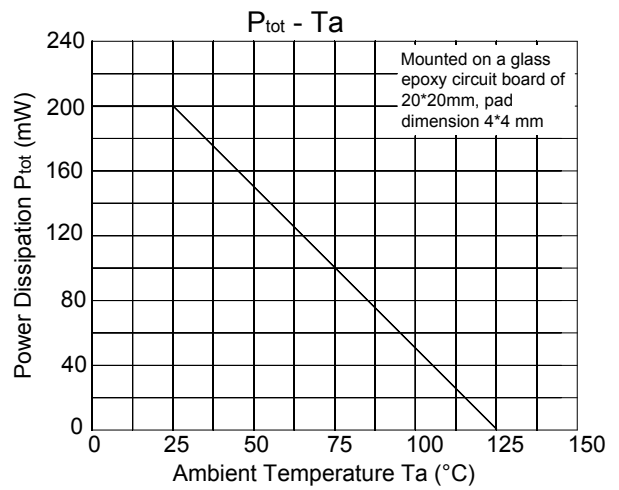
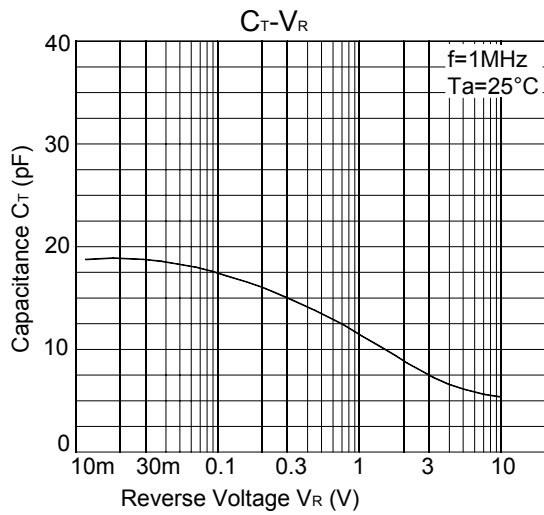
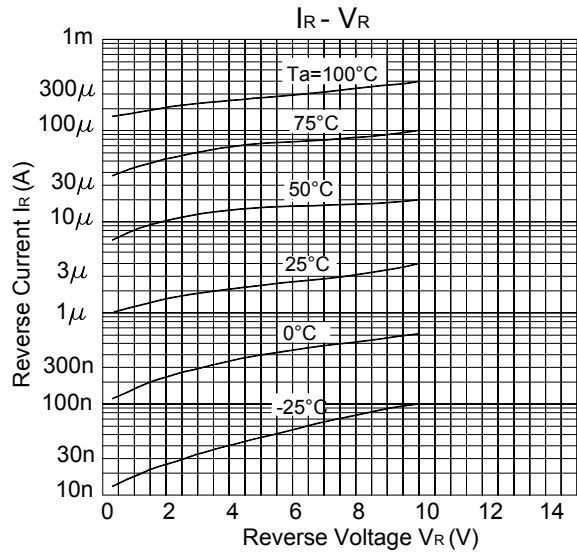
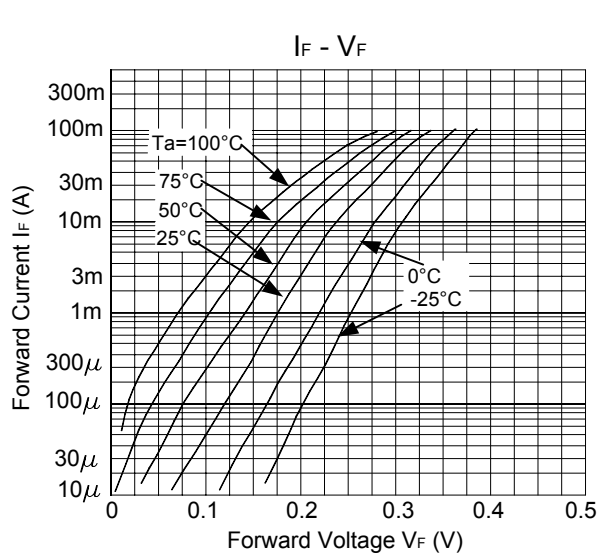
| Parameter         | Test Conditions | Symbol | Min | Typ  | Max  | Unit    |
|-------------------|-----------------|--------|-----|------|------|---------|
| Forward Voltage   | $I_F = 1mA$     | $V_F$  | -   | 0.18 | -    | V       |
|                   | $I_F = 5mA$     | $V_F$  | -   | 0.23 | 0.30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



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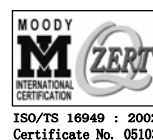
РАДИОТЕХ

Тел.: (495) 795-0805  
Факс: (495) 234-1603  
Эл. почта: info@rct.ru  
Веб: www.rct.ru



## SEMTECH ELECTRONICS LTD.

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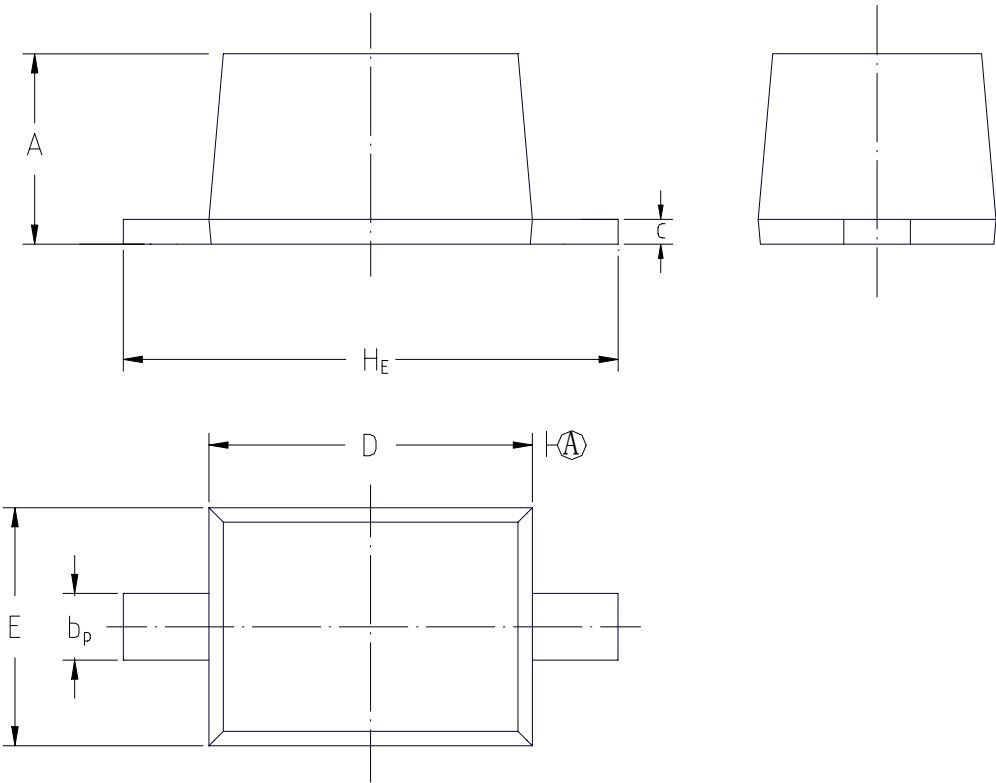


Dated : 30/08/2004

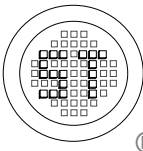
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

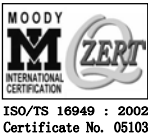
SOD-323



| UNIT | A            | b <sub>p</sub> | c            | D            | E            | H <sub>E</sub> |
|------|--------------|----------------|--------------|--------------|--------------|----------------|
| mm   | 1.10<br>0.80 | 0.40<br>0.25   | 0.15<br>0.00 | 1.80<br>1.60 | 1.35<br>1.15 | 2.80<br>2.30   |



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