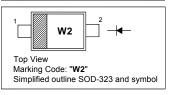
SWITCHING DIODE

Features

- Ultra high speed switching application
- · Low forward voltage
- Fast reverse recovery time
- · Small total capacitance

PINNING

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



Absolute Maximum Ratings (T_a = 25 °C)

| Parameter | Symbol | Value | Unit |
|-------------------------------|------------------|---------------|------|
| Reverse Voltage | V _R | 80 | V |
| Peak Reverse Voltage | V_{RM} | 85 | V |
| Average Forward Current | Io | 100 | mA |
| Peak Forward Current | I _{FM} | 300 | mA |
| Surge Forward Current (10 ms) | I _{FSM} | 2 | А |
| Power Dissipation | P _{tot} | 150 | mW |
| Junction Temperature | T _j | 150 | °C |
| Storage Temperature Range | T _{stg} | - 55 to + 150 | °C |

Characteristics at T_a = 25 °C

| Parameter | Symbol | Max. | Unit |
|---------------------------------------------------------------------------------------------|------------------|------|------|
| Forward Voltage at I _F = 100 mA | V _F | 1.2 | V |
| Reverse Current at $V_R = 80 \text{ V}$ | I _R | 0.5 | μΑ |
| Total Capacitance at $V_R = 0 V$, $f = 1 MHz$ | C _{tot} | 4 | pF |
| Reverse Recovery Time at $I_F = I_R = 10$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω | t _{rr} | 4 | ns |















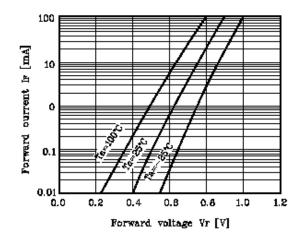


Fig. 2 $I_{\mbox{\scriptsize R}}\mbox{-}V_{\mbox{\scriptsize R}}$

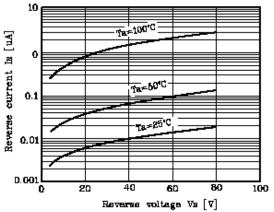


Fig. 3 C_T - V_R

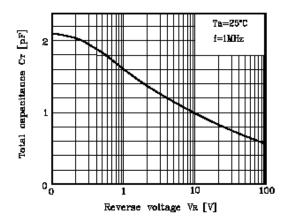
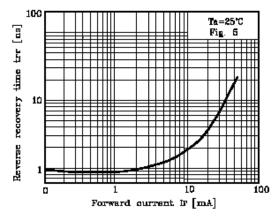


Fig. 4 trr-I_F











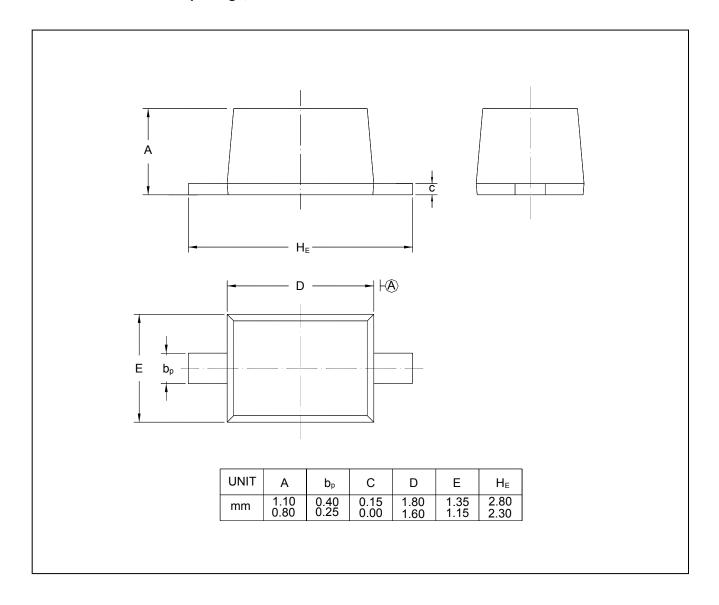




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



SEMTECH ELECTRONICS LTD.









