# GSBAS16

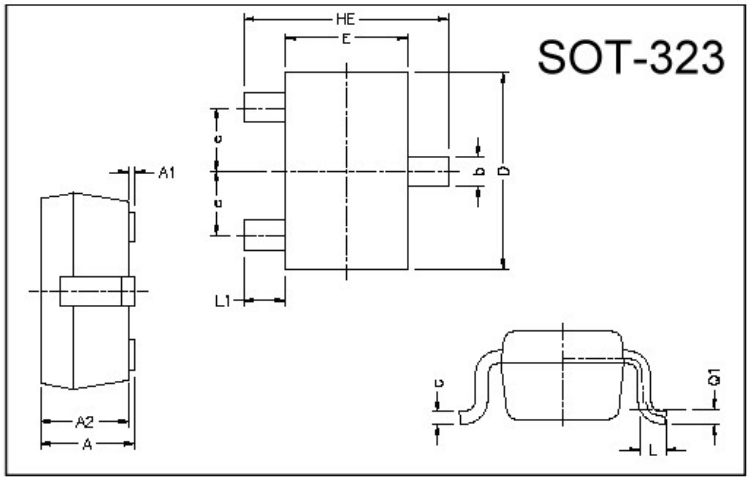
**SURFACE MOUNT, SWITCHING DIODE**

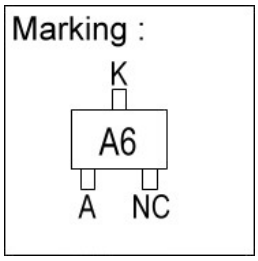
**VOLTAGE 85V, CURRENT 250mA**

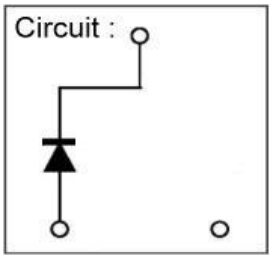
## Description

The GSBAS16 is designed for high-speed switching application in hybrid thick and thin-film circuits.
The devices is manufactured by the silicon epitaxial planar process and packed in a plastic surface mount package.

## Package Dimensions




| REF. | Millimeter | | REF. | Millimeter | |
|---|---|---|---|---|---|
| | Min. | Max. | | Min. | Max. |
| A | 0.80 | 1.10 | L1 | 0.42 REF. | |
| A1 | 0 | 0.10 | L | 0.15 | 0.35 |
| A2 | 0.80 | 1.00 | b | 0.25 | 0.40 |
| D | 1.80 | 2.20 | c | 0.10 | 0.25 |
| E | 1.15 | 1.35 | e | 0.65 REF. | |
| HE | 1.80 | 2.40 | Q1 | 0.15 BSC. | |

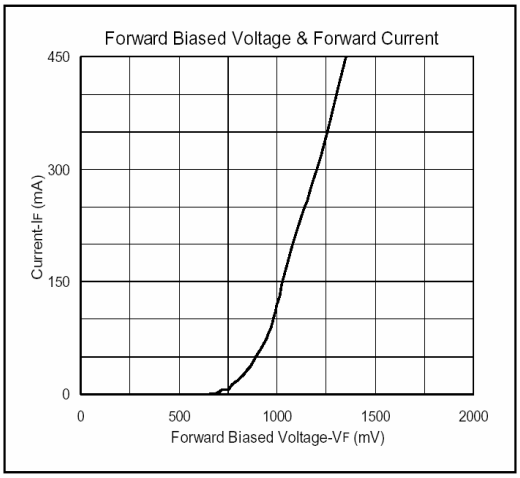
## Absolute Maximum Ratings at $T_A$ = 25℃

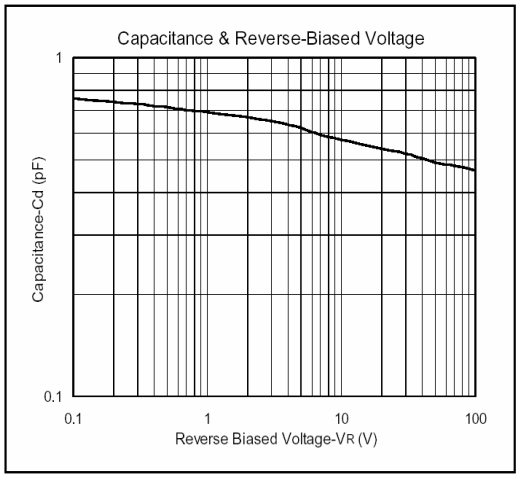
| Parameter | Symbol | Ratings | Unit |
|---|---|---|---|
| Junction Temperature | Tj | +150 | ℃ |
| Storage Temperature | Tstg | -65 ~ +150 | ℃ |
| Reverse Voltage | $V_R$ | 85 | V |
| Repetitive Reverse Voltage | $V_{RRM}$ | 85 | V |
| Forward Current | $I_O$ | 250 | mA |
| Repetitive Forward Current | $I_{FM}$ | 500 | mA |
| Forward Surge Current (1ms) | $I_{FSM}$ | 1000 | mA |
| Total Power Dissipation | $P_D$ | 225 | mW |

## Electrical Characteristics (at $T_A$ = 25℃ unless otherwise noted)

| Characteristic | Symbol | Min. | Max. | Unit | Test Conditions |
|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{(BR)}$ | 85 | - | V | $I_R$=100uA |
| Forward Voltage | $V_F$(1) | - | 715 | mV | $I_F$=1mA |
| | $V_F$(2) | - | 855 | mV | $I_F$=10mA |
| | $V_F$(3) | - | 1000 | mV | $I_F$=50mA |
| | $V_F$(4) | - | 1250 | mV | $I_F$=150mA |
| Reverse Current | $I_R$ | - | 1 | uA | $V_R$=85V |
| Total Capacitance | $C_T$ | | 2 | pF | $V_R$=0, f=1MHz |
| Reverse Recovery Time | Trr | - | 6 | nS | $I_F$=$I_R$=10mA, $R_L$=100Ω measured at $I_R$=1mA |

## Characteristics Curve






***Head Office And Factory:***
- **Taiwan**: No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
  TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China**: (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
  TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165