

## 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

SOT-323

Marking :

Circuit :

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.	

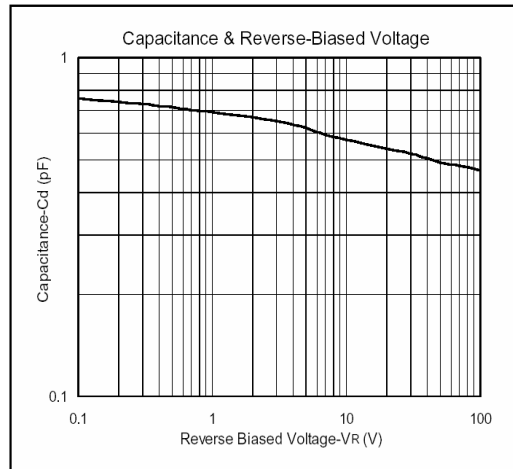
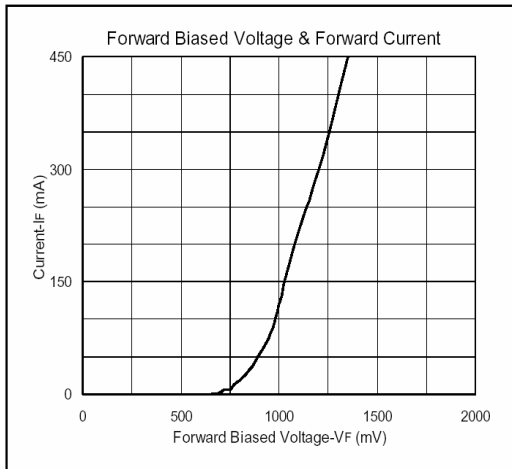
### Absolute Maximum Ratings at TA = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-65 ~ +150	°C
Reverse Voltage	VR	85	V
Repetitive Reverse Voltage	VRRM	85	V
Forward Current	Io	250	mA
Repetitive Forward Current	IFM	500	mA
Forward Surge Current (1ms)	IFSM	1000	mA
Total Power Dissipation	Pd	225	mW

### Electrical Characteristics (at TA = 25°C unless otherwise noted)

Characteristic	Symbol	Min.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V(BR)	85	-	V	IR=100uA
Forward Voltage	VF(1)	-	715	mV	IF=1mA
	VF(2)	-	855	mV	IF=10mA
	VF(3)	-	1000	mV	IF=50mA
	VF(4)	-	1250	mV	IF=150mA
Reverse Current	IR	-	1	uA	VR=85V
Total Capacitance	CT		2	pF	VR=0, f=1MHz
Reverse Recovery Time	Trr	-	6	nS	IF=IR=10mA, RL=100Ω measured at IR=1mA

## Characteristics Curve

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