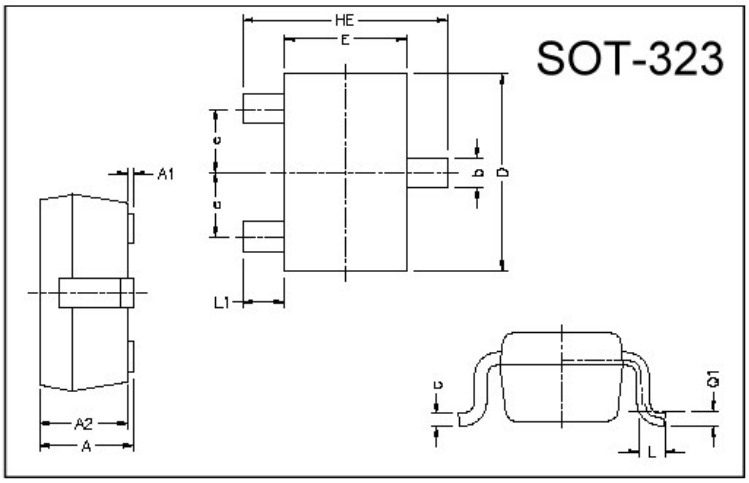
GSMBD4148

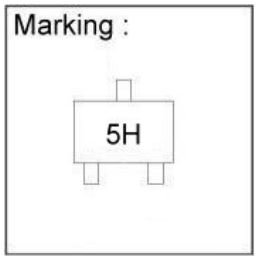
SURFACE MOUNT, SWITCHING DIODE
VOLTAGE 75V, CURRENT 0.2A

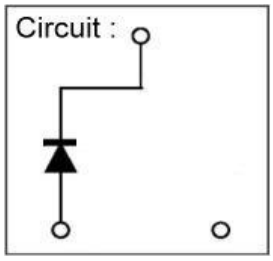
Description

The GSMBD4148 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 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 Ta = 25℃

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	℃
Storage Temperature	Tstg	-65 ~ +150	℃
Maximum Peak Reverse Voltage	V_{RM}	100	V
Maximum Reverse Voltage	V_R	75	V
Average Forward Current	I_O	200	mA
Surge Current(1us)	I_{FSM}	2	A
Typical Junction Capacitance between Terminal (Note 1)	C_J	4.0	pF
Maximum Reverse Recovery Time (Note2)	T_{RR}	4.0	nSec
Total Power Dissipation	P_D	225	mW

Electrical Characteristics at Ta = 25℃

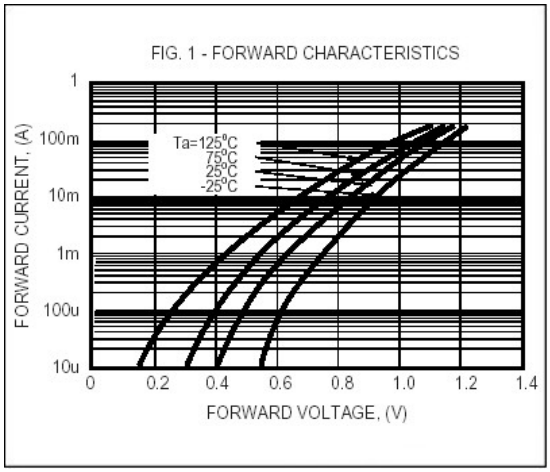
Characteristic	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	VF	-	1	V	IF=10mA
Reverse Breakdown	VR	100	-	V	IR=100uA
Reverse Current	IR	-	5	uA	VR=75V

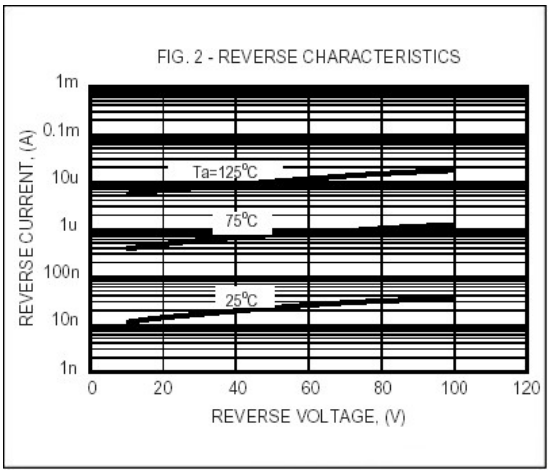
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 0 volt.

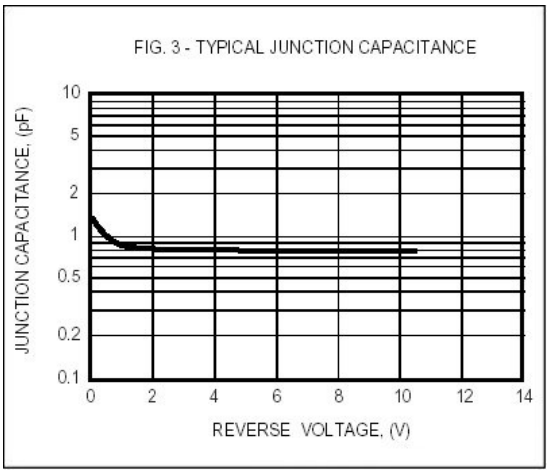
2. Measured at applied forward current of 10mA, reverse current of 1.0mA, Reverse voltage of 6.0volt and RL=100 ohms.

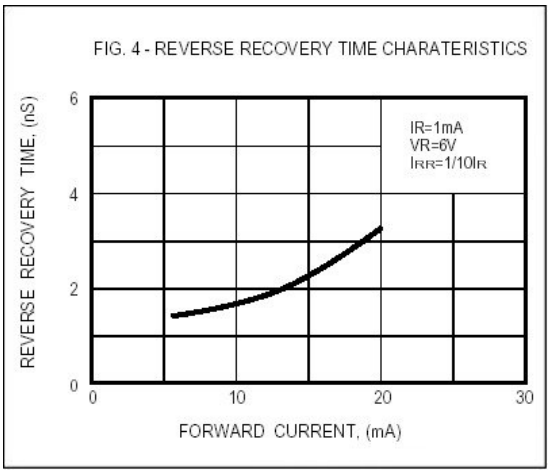
3. ESD sensitive product handling required.

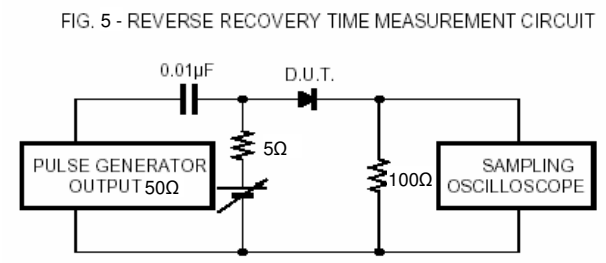
Characteristics Curve











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