

## GMBD4148

### Description

The GMBD4148 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

**SOT - 23**

Diagram :

Marking :

**Style : Pin 1. Anode 2. NC 3. Cathode**

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

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

Parameter	Symbol	Ratings	Unit
Junction Temperature	T <sub>j</sub>	+150	°C
Storage Temperature	T <sub>stg</sub>	-65~+150	°C
Continuous Reverse Voltage	V <sub>R</sub>	70	V
Continuous Forward Current	I <sub>F</sub>	200	mA
Peak Forward Surge Current	I <sub>FSM</sub>	500	mA

### Characteristics at Ta = 25°C

Characteristic	Symbol	Min.	Max.	Unit	Test Conditions
Forward Voltage	V <sub>F</sub>	-	1	V	I <sub>F</sub> =10mA
Reverse Breakdown	V <sub>R</sub>	100	-	V	I <sub>R</sub> =100uA
Reverse Current	I <sub>R</sub>	-	5	uA	V <sub>R</sub> =75V
Total Capacitance	C <sub>T</sub>	-	4	pF	V <sub>R</sub> =0V, F=1MHz
Reverse Recovery Time	T <sub>rr</sub>	-	4	nS	I <sub>F</sub> =I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω Measured at I <sub>R</sub> =1mA

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