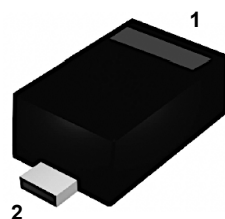


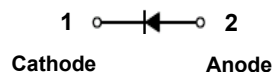
GSBA892WT Switching Diode

Applications

For band switching in VHF television tuners and surface mount band switching circuits



SOD-523



Schematic Diagram

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	35	V
Forward Current	I_F	100	mA
Operating Junction Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	35	-	-	V
Reverse Current	I_R	$V_R=20\text{V}$	-	-	20	nA
Forward Voltage	V_F	$I_F=100\text{mA}$	-	-	1	V
Diode Capacitance	C_T	$V_R=1\text{V}, f=1\text{MHz}$	0.65	-	1.4	pF
		$V_R=3\text{V}, f=1\text{MHz}$	0.6	-	1.1	
		$V_R=0\text{V}, f=100\text{MHz}$	-	1	-	
Forward Resistance	r_f	$I_F=3\text{mA}, f=100\text{MHz}$	-	-	0.7	Ω
		$I_F=10\text{mA}, f=100\text{MHz}$	-	-	0.5	
Series Inductance	L_S	-	-	0.6	-	nH

Typical Characteristic Curves

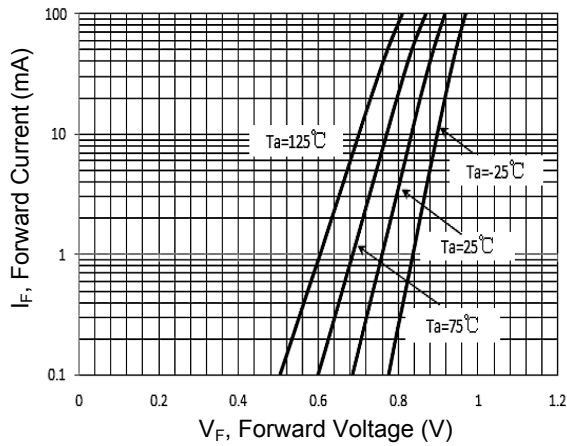


Figure 1. Forward Characteristics

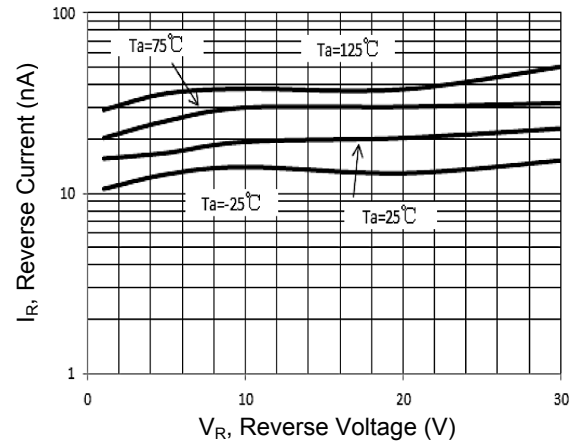


Figure 2. Reverse Characteristics

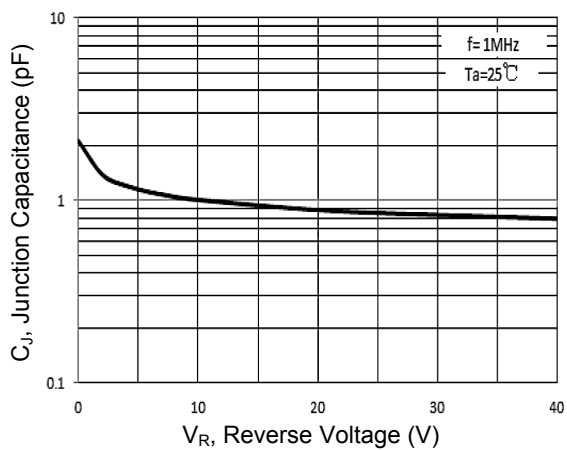


Figure 3. Junction Capacitance vs. Reverse Voltage

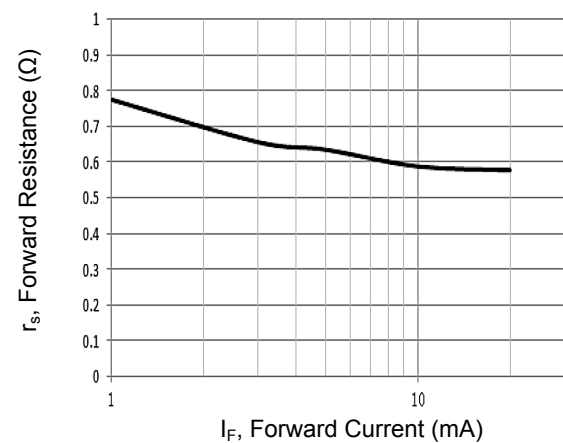
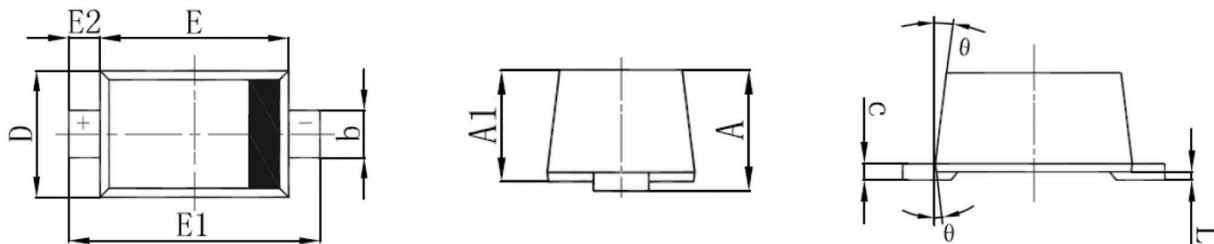


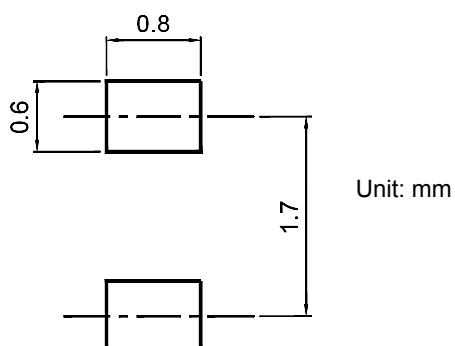
Figure 4. Forward Resistance vs. Forward Current

Package Outline Dimensions (SOD-523)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.030
A1	0.500	0.700	0.020	0.028
b	0.250	0.400	0.010	0.016
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.150	0.250	0.006	0.010
L	0.010	0.070	0.000	0.003
θ	7° REF.		7° REF.	

Recommended Pad Layout



Order Information

Device	Package	Marking	Carrier	Quantity
GSBA892WT	SOD-523	U	Tape & Reel	4,000 Pcs / Reel