

SILICON RF SWITCHING DIODE

FEATURES

- ♦Very low forward resistance
- ♦Small capacitance

Applications

- ♦For band switching in TV/VTR
- ♦tuners and mobile applications

Pinning

1.Cathode	2.Anode
	
SOD-323	

Marking Code

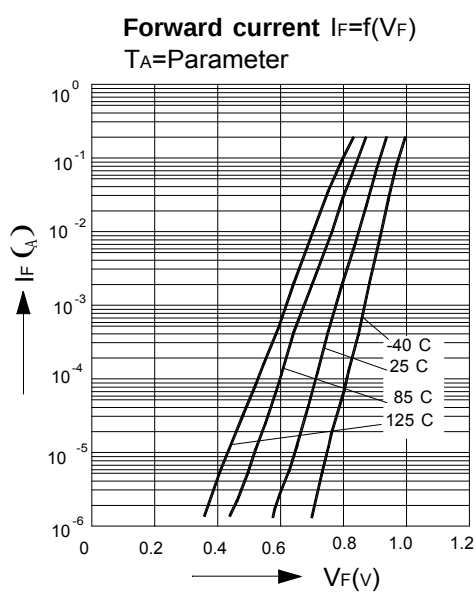
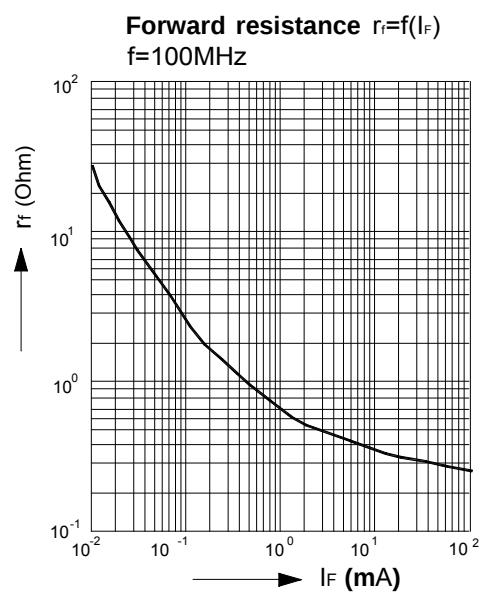
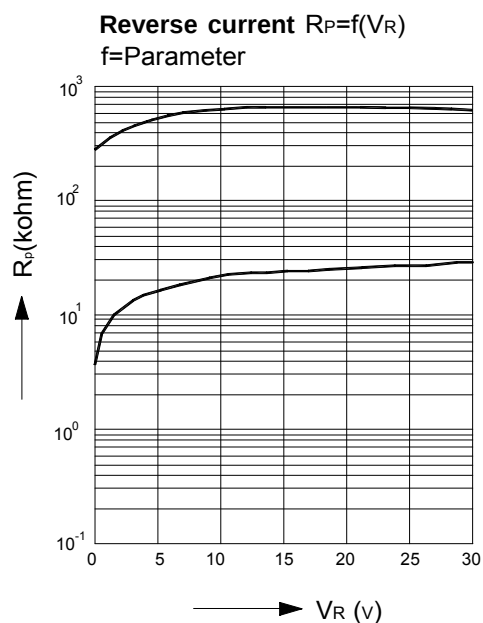
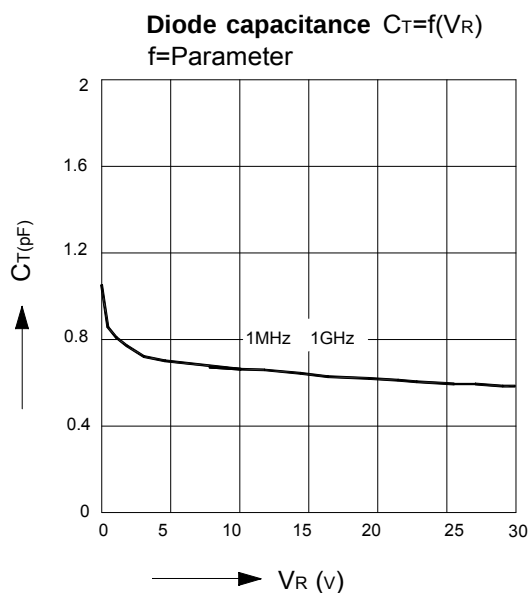
BA592WS	W4
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Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit
Diode Reverse Voltage	V_R	35	V
Forward Current	I_F	100	mA
Junction Temperature	T_J	150	°C
Operating Temperature Range	T_{op}	- 55 to + 125	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit
Reverse Current at $V_R = 20$ V	I_R	-	-	20	nA
Forward Voltage at $I_F = 100$ mA	V_F	-	-	1	V
Diode Capacitance at $V_R = 1$ V, $f = 1$ MHz at $V_R = 3$ V, $f = 1$ MHz	C_T	0.65 0.6	- -	1.4 1.1	pF
Reverse Parallel Resistance at $V_R = 0$ V, $f = 100$ MHz	R_P	-	100	-	KΩ
Forward Resistance at $I_F = 3$ mA, $f = 100$ MHz at $I_F = 10$ mA, $f = 100$ MHz	r_f	- -	- -	0.7 0.5	Ω
Series Inductance	L_s	-	1.8	-	nH



Ordering information

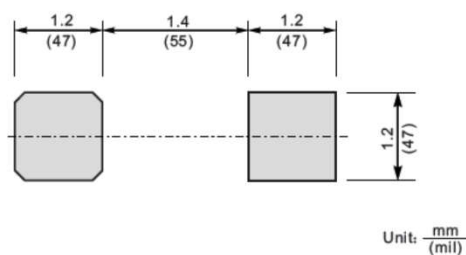
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



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