

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Capacitance
- Low Forward Resistance

Maximum Ratings

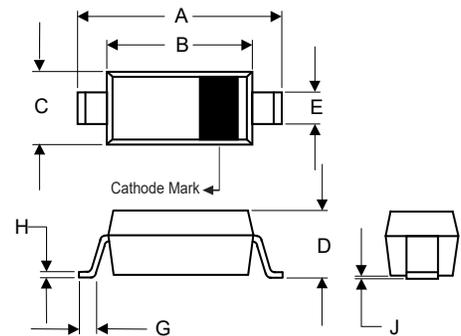
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 120°C/W Junction to Soldering Point

Parameter	Symbol	Limits	Unit
Reverse Voltage	V_R	50	V
Forward Current	I_F	100	mA
Power Dissipation ($T_S=90^\circ\text{C}$)	P_D	500	mW

Device Marking: A1

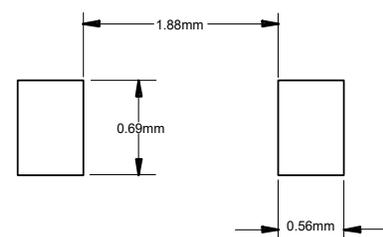
Silicon RF Switching Diode

SOD-323



DIMENSIONS					NOTE
DIM	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.090	0.107	2.30	2.70	
B	0.063	0.071	1.60	1.80	
C	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
H	0.004	0.010	0.10	0.25	
J	----	0.006	----	0.15	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Max.	Max.	Conditions
Forward Voltage	V_F			1.0V	$I_F=10\text{mA}$
Reverse Current	I_{R1}			20nA	$V_R=20\text{V}$
	I_{R2}			100nA	$V_R=50\text{V}$
Diode Capacitance	C_{d1}		1.8pF	2.0pF	$V_R=0\text{V}, f=1\text{MHz}$
	C_{d2}		1.1pF	1.5pF	$V_R=1\text{V}, f=1\text{MHz}$
	C_{d3}		0.8pF	1.0pF	$V_R=3\text{V}, f=1\text{MHz}$
Diode Forward Resistance	R_{D1}		0.45Ω	0.7Ω	$I_F=3\text{mA}, f=100\text{MHz}$
	R_{D2}		0.36Ω	0.5Ω	$I_F=10\text{mA}, f=100\text{MHz}$
Reverse Resistance	1/gp		100KΩ		$V_R=1\text{V}, f=100\text{MHz}$
Series Inductance	L_S		2nH		

Curve Characteristics

Fig. 1 - Capacitance Characteristics

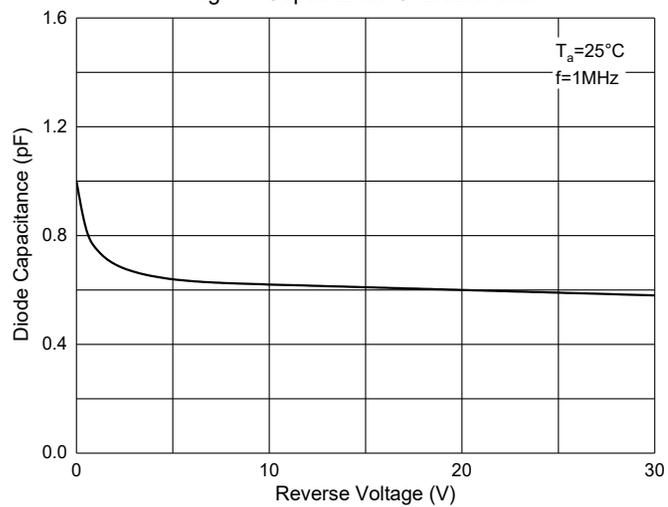
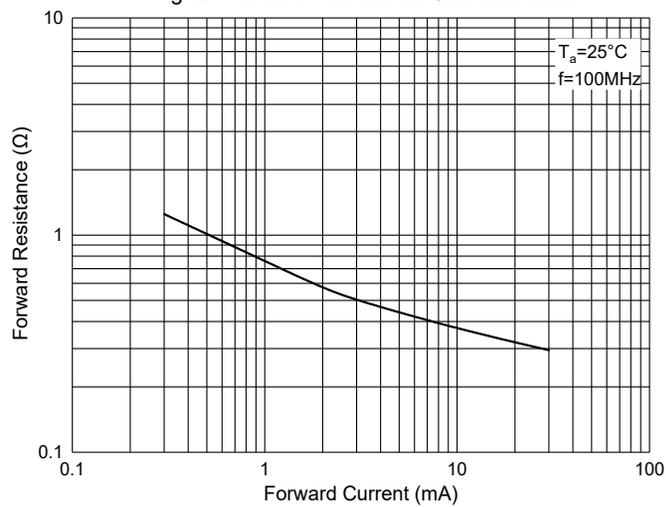


Fig. 2 - Forward Resistance Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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