

## SILICON RF SWITCHING DIODE

### Features

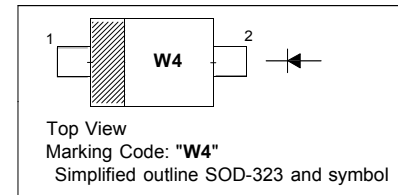
- Very low forward resistance
- Small capacitance

### Applications

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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

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

### Electrical Characteristics at $T_a = 25\text{ }^\circ\text{C}$

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

