

NTE555A Silicon Pin Diode VHF Band Switch

Features:

- Switching Diode in a DO34 Glass Envelope
- Intended for Band Switching in VHF Television Tuners
- Low Capacitance

Absolute Maximum Ratings:

Continuous Reverse Voltage, V_R 35V
 DC Forward Current, I_F 100mA
 Operating Junction Temperature, T_J +150°C
 Storage Temperature, T_{stg} -65° to +150°C
 Thermal Resistance, $R_{th(j-a)}$
 (From Junction to Ambient on a printed circuit board, lead length = 5.0mm) 0.6K/mW

Electrical Characteristics: ($T_J = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 100\text{mA}$	-	-	1.2	V
Reverse Current	I_R	$V_R = 20\text{V}$	-	-	100	nA
		$V_R = 20\text{V}, T_A = +75^\circ\text{C}$	-	-	1.0	μA
Diode Capacitance	C_d	$V_R = 3\text{V}, f = 1 \text{ to } 100\text{MHz}$	-	0.8	1.2	pf
Series Resistance	r_D	$I_F = 3\text{mA}, f = 200\text{MHz}$	-	0.6	0.7	Ω

