

## 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	$\mu\text{A}$
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	$\Omega$

