

## NTE616 Varactor Diode

**Description:**

The NTE616 is a silicon varactor diode used in VHF electronics tuners. This device is available as matched sets of four in standard DO35 cases.

**Absolute Maximum Ratings:**

Reverse Voltage,  $V_R$  ..... 30V  
 Power Dissipation ( $T_A = +60^\circ\text{C}$ ),  $P_D$  ..... 150mW

**Electrical Characteristics:** ( $T_A = 25^\circ\text{C}$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 28V$	–	–	0.01	$\mu\text{A}$
Capacitance Effect	C	$V_R = 25V$	2.0	–	2.3	pF
Ratio	$C_x/C_y$	( $C_x = C_3$ ; $C_y = C_{25}$ )	5	–	6	–
Series Resistance	$r_s$	$V_R = 3V$ to $25V$	–	–	0.8	$\Omega$
Change of Capacitance	$\Delta C/C$	$V_R = 3V$ to $25V$	–	–	3	%

