

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	$V_R = 28\text{V}$	–	–	0.01	μA
Capacitance Effect	C	$V_R = 25\text{V}$	2.0	–	2.3	pF
Ratio	C_x/C_y	($C_x = C_3$; $C_y = C_{25}$)	5	–	6	–
Series Resistance	r_s	$V_R = 3\text{V to } 25\text{V}$	–	–	0.8	Ω
Change of Capacitance	$\Delta C/C$	$V_R = 3\text{V to } 25\text{V}$	–	–	3	%

