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## 1N34A Point Contact Germanium Diode

**Description:**

The 1N34A is a point contact diode in a DO7 type package employing N-form Germanium and gives an efficient and excellent linearity when used in TV image detection, FM detection, radio AM detection, etc.

**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Peak Inverse Voltage, Repetitive ( $I_R = 1\text{mA}$ ), $P_{IV}$ .....	65V
Reverse Voltage DC, $V_R$ .....	20V
Peak Forward Surge Current, Non-Repetitive ( $t = 1\text{sec}$ ), $I_{FSM}$ .....	0.5A
Peak Forward Surge Current, Repetitive, $I_{FSR}$ .....	200mA
Average Rectified Output Current, $I_O$ .....	50mA
Operating Junction Temperature, $T_J$ .....	$+75^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-55^\circ$ to $+75^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage Drop	$V_F$	$I_F = 5\text{mA}$	-	-	1.0	V
Forward Current	$I_F$	$V_F = 1\text{V}$	4	-	-	mA
Reverse Current	$I_R$	$V_R = 10\text{V}$	-	-	30	$\mu\text{A}$
		$V_R = 50\text{V}$	-	-	500	$\mu\text{A}$
Junction Capacitance	$C_j$	$F = 1\text{MHz}$ , $V = -1\text{V}$	-	-	1	pF
Rectification Efficiency	$\eta$	$V_i = 2V_{\text{rms}}$ , $= 5\text{K}\Omega$ , $C = 20\text{pF}$ , $f = 40\text{MHz}$	55	-	-	%

