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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 Reverse Voltage, $V_{RM}$	45V
Reverse Voltage DC, $V_R$	20V
Peak Forward Current, $I_{FM}$	150mA
Average Rectified Output Current, $I_O$	50mA
Surge Forward Current, $I_{surge}$	500mA
Operating Junction Temperature, $T_J$	+75°C
Storage Temperature Range, $T_{stg}$	-55° to +75°C

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

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

