

# 1N34A

## POINT CONTACT GERMANIUM DIODE

The germanium point contact (Ge) diodes are widely used for detecting the rectifying efficiency or for switching on the radio, TV, or stereo, ect.

### FEATURE

- \* High reliability for resistance to vibration and shock proof.
- \* High withstand voltage.
- \* Small reverse current.
- \* Excellent electrical characteristics suitable for FM. detection or MPX.

### APPLICATION

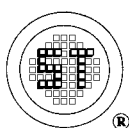
- \* FM detection, MPX, projected-image detection. switching, and limiter.

### Absolute Maximum Ratings

	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	45	V
Reverse Voltage dc	$V_R$	20	V
Peak Forward Current	$I_{FM}$	150	mA
Average Rectified Output Current	$I_O$	50	mA
Surge Forward Current	$I_{surge}$	500	mA
Junction Temperature	$T_j$	75	°C
Storage Temperature Range	$T_s$	-55 to + 75	°C

### Characteristics (1N34A)

	Symbol	Test condition ( $T_a$ 25 ± 2 °C)	Min.	Typ.	Max.	Units
Forward Current	$I_F$	$V_F = 1V$	4	2	-	mA
Reverse Currents	$I_R$	$V_R = -10V$	-	-	100	μA
	$I_{R2}$	$V_R = V$	-	-	-	μA
Junction Capacitance $C_j$	-	$f = 1MHz, V = -1V$	-	-	1	PF
Rectification efficiency	$\eta$	$V_i = 2V_{rms}, = 5K\Omega$ $C = 20PF, f = 40 MHz$	55	-	-	%
Pair						



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