

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	η	$V_i = 2V_{rms}, =5K\Omega$ $C = 20PF, f = 40 MHz$	55	-	-	%
Pair						