

# MICRO ELECTRONICS

2N3962

PNP  
SILICON  
TRANSISTOR

## DESCRIPTION

2N3962 is PNP silicon planar transistor designed for AF small signal amplifier stages.

TO-18



CBE

## ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	V <sub>CEO</sub>	60V
Collector-Base Voltage	V <sub>CBO</sub>	60V
Emitter-Base Voltage	V <sub>EB0</sub>	6V
Collector Current	I <sub>C</sub>	200mA
Continuous Power Dissipation	P <sub>d</sub>	360mW
Operating & Storage Junction Temperature	T <sub>j</sub> , T <sub>stg</sub>	-55 to +150°C

## ELECTRO-OPTICAL CHARACTERISTICS

(T<sub>a</sub> = 25°C)

PARAMETER	SYMBOL	MIN	MAX	UNIT	CONDITIONS
Collector-Emitter Breakdown Voltage	LV <sub>CEO</sub>	60		V	I <sub>C</sub> = 5mA IB = 0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	60		V	I <sub>C</sub> = 10μA IE = 0
Emitter-Base Breakdown Voltage	BV <sub>EB0</sub>	6		V	IE = 10μA IC = 0
Collector Cutoff Current	IC <sub>ES</sub>		10	nA	V <sub>CE</sub> = 50V V <sub>EB</sub> = 0
Emitter Cutoff Current	IE <sub>BO</sub>		10	nA	V <sub>EB</sub> = 4V IC = 0
D.C. Current Gain	HFE	60			I <sub>C</sub> = 0.001mA V <sub>CE</sub> = 5V
		100	300		I <sub>C</sub> = 0.01mA V <sub>CE</sub> = 5V
		100	450		I <sub>C</sub> = 1mA V <sub>CE</sub> = 5V
		90			I <sub>C</sub> = 50mA V <sub>CE</sub> = 5V
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>		0.25	V	I <sub>C</sub> = 10mA IB = 0.5mA
			0.4	V	I <sub>C</sub> = 50mA IB = 5mA
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>		0.95	V	I <sub>C</sub> = 50mA IB = 5mA
Output Capacitance	C <sub>ob</sub>		6	pF	V <sub>CB</sub> = 10V f = 1MHz
Noise Figure	NF		3	dB	I <sub>C</sub> = 0.02mA V <sub>CE</sub> = 5V REB = 10Kohmf = 1kHz

\* Pulse test : pulse width < 300μS, duty cycle < 2%.



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