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2N4261 Polarity PNP

Features:

- Fast switching small signal silicon transistor
- Housed in a TO-72 case.



Maximum Ratings

T_C = 25°C unless otherwise specified

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Collector-Emitter Voltage	V _{CEO}	15	V
Collector-Base Voltage	V _{CBO}	15	V
Emitter-Base Voltage	V _{EBO}	4.5	V
Collector Current, Continuous	Ic	30	mA
Operating Junction Temperature	Т	-65 to +200	°C
Storage Temperature	T _{STG}	-65 to +200	°C



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Electrical Characteristics

T_C = 25°C unless otherwise specified

OFF Charles and the same and a same a				Lin
Collector-Base Breakdown Voltage I _C = 10 µA	V _{(BR)CBO}	15		٧
Collector-Emitter Breakdown Voltage I _C = 10 mA	V _{(BR)CEO}	15		V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	4.5		V
Collector-Emitter Cutoff Current				
$V_{CE} = 10 \text{ V}, V_{EB} = 0.4 \text{ V}$	I _{CEX1}		50	nΑ
$V_{CE} = 10 \text{ V}, V_{EB} = 2.0 \text{ V}$	I _{CEX2}		5.0	nΑ
$V_{CE} = 10 \text{ V}, V_{EB} = 2.0 \text{ V}, T_A = +150 ^{\circ}\text{C}$	I _{CEX3}		5.0	μA
Base Cutoff Current V _{CE} = 10 V, V _{EB} = 2.0 V	I _{BEX}		5.0	nA
Emitter-Base Cutoff Current V _{EB} = 4.5 V	I _{EBO}		10	μΑ

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Forward current Transfer Ratio				
$I_C = 1.0 \text{ mA}, V_{CE} = 1.0 \text{ V}$	h _{FE1}	25		
$I_C = 10 \text{ mA}, V_{CE} = 1.0 \text{ V}, \text{ pulsed}$	h _{FE2}	30	150	
I_C = 30 mA, V_{CE} = 1.0 V pulsed	h _{FE3}	20		
$I_C = 10 \text{ mA}, V_{CE} = 1.0 \text{ V}, T_A = -55^{\circ}\text{C}$	h _{FE4}	15]]
Collector-Emitter Saturation Voltage				
$I_C = 1.0 \text{ mA}, I_B = 0.1 \text{ mA}$	V _{CE(sat)1}		0.15	V dc
$I_C = 10 \text{ mA}, I_B = 1.0 \text{ mA}$	V _{CE(sat)2}		0.35	V dc
Base-Emitter Saturation Voltage				
$V_{CE} = 1.0 \text{ V}, I_{C} = 1.0 \text{ mA}$	V _{BE1}		0.8	V dc
$V_{CE} = 1.0 \text{ V}, I_{C} = 10 \text{ mA}$	V _{BE2}		1.0	V dc

Small Signal (Praparalista Signal)				14.
Magnitude of Common Emitter Small Signal				
Short Circuit Forward Current Transfer Ratio				
$V_{CE} = 4.0 \text{ V}, I_{C} = 5.0 \text{ mA}, f = 100 \text{ MHz}$	h _{fe1}	15	→94	
$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}, f = 100 \text{ MHz}$	h _{fe2}	20		
Open Circuit Output Capacitance	C	С _{ово}	2.5	nE
$V_{CB} = 4.0 \text{ V}, I_E = 0, 100 \text{ kHz} < f < 1 \text{ MHz}$	ОВО		2.5	p⊦
Input Capacitance, Output Open Circuited	C		2.5	
$V_{EB} = 0.5 \text{ V}, I_{C} = 0, 100 \text{ kHz} < f < 1 \text{ MHz}$	C _{IBO}		2.5	p⊢

SWITCHING AND RESIDENCES			
Collector-Base Time Constant $V_{CE} = 4.0 \text{ V}, I_{C} = 5.0 \text{ mA}, f = 31.8 \text{ MHz}$	r'b'C _{C1}	 60	ps
Collector-Base Time Constant $V_{CE} = 4.0 \text{ V}, I_{C} = 10 \text{ mA}, f = 31.8 \text{ MHz}$	r'b'C _{C2}	 50	ps
Saturated Turn On Switching Time to 90% V _{CC} = 17 V, 50 ohm pulse generator	t _{on}	 2.5	ns
Saturated Turn Off Switching Time to 10% $V_{CC} = 17 \text{ V}$, 50 ohm pulse generator	t _{OFF}	 3.5	ns