

Type 2N4261 Geometry 0014 Polarity PNP

Qual Level: JAN - JANS

Data Sheet No. 2N4261

Generic Part Number: 2N4261

REF: MIL-PRF-19500/511

Features:

- Fast switching small signal silicon transistor.
- Housed in a TO-72 case.
- Also available in chip form using the 0014 chip geometry.
- The Min and Max limits shown are per MIL-PRF-19500/511 which Semicoa meets in all cases.
- · Radiation graphs available.

Request Quotation



TO-72

Maximum Ratings

 $T_C = 25^{\circ}C$ unless otherwise specified

Rating	Symbol	Rating	Unit
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	I _C	30	mA
Operating Junction Temperature	TJ	-65 to +200	°C
Storage Temperature	T _{STG}	-65 to +200	°C



Electrical Characteristics

 $T_C = 25^{\circ}C$ unless otherwise specified

OFF Characteristics	Symbol	Min	Max	Unit
Collector-Base Breakdown Voltage $I_C = 10 \mu A$	V _{(BR)CBO}	15		V
Collector-Emitter Breakdown Voltage I _C = 10 mA	V _{(BR)CEO}	15		V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	4.5		٧
Collector-Emitter Cutoff Current $V_{CE} = 10 \text{ V}, V_{EB} = 0.4 \text{ V}$ $V_{CE} = 10 \text{ V}, V_{EB} = 2.0 \text{ V}$ $V_{CE} = 10 \text{ V}, V_{EB} = 2.0 \text{ V}, T_{A} = +150 ^{\circ}\text{C}$	I _{CEX1} I _{CEX2} I _{CEX3}	 	50 5.0 5.0	nA nA μA
Base Cutoff Current $V_{CE} = 10 \text{ V}, V_{EB} = 2.0 \text{ V}$	I _{BEX}		5.0	nA
Emitter-Base Cutoff Current $V_{EB} = 4.5 \text{ V}$	I _{EBO}		10	μΑ

ON Characteristics	Symbol	Min	Max	Unit
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	
$I_C = 30 \text{ mA}, V_{CE} = 1.0 \text{ V pulsed}$	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 Characteristics	Symbol	Min	Max	Unit
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		
$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}, f = 100 \text{ MHz}$	h _{fe2}	20		
Open Circuit Output Capacitance	C _{OBO}		2.5	pF
$V_{CB} = 4.0 \text{ V}, I_{E} = 0, 100 \text{ kHz} < f < 1 \text{ MHz}$	Ово		2.5	ы
Input Capacitance, Output Open Circuited	C		2.5	nΕ
$V_{EB} = 0.5 \text{ V}, I_{C} = 0, 100 \text{ kHz} < f < 1 \text{ MHz}$	C_{IBO}		2.5	pF

Switching Characteristics	Symbol	Min	Max	Unit
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 V, 50 ohm pulse generator	t _{OFF}		3.5	ns

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