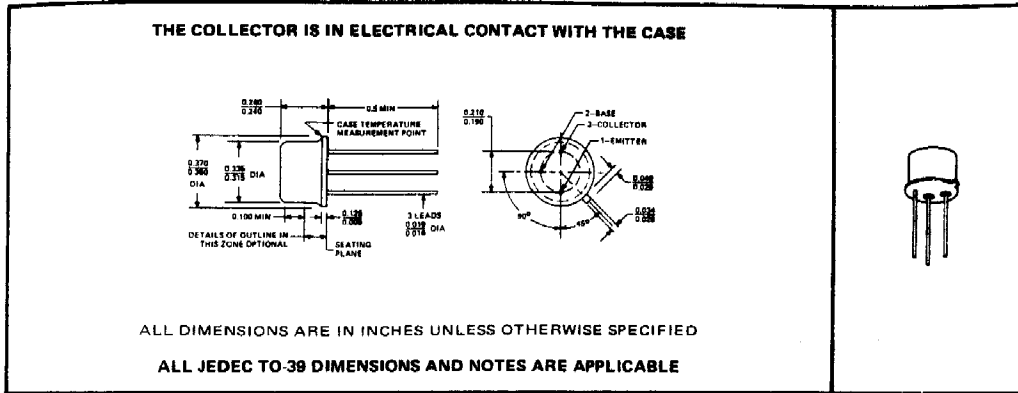


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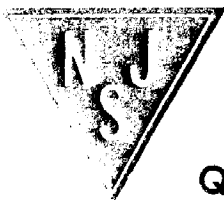
**TYPES 2N6461 THRU 2N6464
 N-P-N SILICON TRANSISTORS**



absolute maximum ratings at 25°C free-air temperature (unless otherwise noted)

	2N6461	2N6463
Collector-Base Voltage	300 V	250 V
Collector-Emitter Voltage (See Note 1)	300 V	250 V
Emitter-Base Voltage	7 V	6 V
Continuous Collector Current	← 100 mA →	
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature (See Note 2)	← 1 W →	
Continuous Device Dissipation at (or below) 25°C Case Temperature (See Note 3)	← 10 W →	
Storage Temperature Range	← -65°C to 200°C →	
Lead Temperature 1/16 Inch from Case for 10 Seconds	← 300°C →	

NOTES: 1. This value applies between 0 and 10 mA collector current when the base-emitter diode is open-circuited.
 2. Derate linearly to 175°C free-air temperature at the rate of 6.67 mW/°C.
 3. Derate linearly to 175°C case temperature at the rate of 66.7 mW/°C.



**TYPES 2N6461 THRU 2N6464
N-P-N SILICON TRANSISTORS**

*electrical characteristics at 25° C free-air temperature (unless otherwise noted)

PARAMETER	TEST CONDITIONS	2N6461		2N6462		2N6463		2N6464		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
V(BR)CBO	Collector-Base Breakdown Voltage	I _C = 100 μA, I _E = 0		300		300		250		V
V(BR)CEO	Collector-Emitter Breakdown Voltage	I _C = 10 mA, I _B = 0, See Note 4		300		300		250		V
V(BR)EBO	Emitter-Base Breakdown Voltage	I _E = 100 μA, I _C = 0		7		7		6		V
I _{CBO}	Collector Cutoff Current	V _{CB} = 200 V, I _E = 0		50		50		50		nA
		V _{CB} = 150 V, I _E = 0								
		V _{CB} = 200 V, I _E = 0, T _A = 125° C		20		20				μA
		V _{CB} = 150 V, I _E = 0, T _A = 125° C						20		20
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5 V, I _C = 0		10		10		10		nA
h _{FE}	Static Forward Current Transfer Ratio	V _{CE} = 10 V, I _C = 4 mA		20		20		20		
		V _{CE} = 10 V, I _C = 20 mA, See Note 4		30 120		100 300		30 120		100 300
		V _{CE} = 10 V, I _C = 40 mA, See Note 4						30		40
V _{BE}	Base-Emitter Voltage	V _{CE} = 10 V, I _C = 20 mA, See Note 4		1		1		1		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _B = 2 mA, I _C = 20 mA, See Note 4		1.1		1.1		1		V
h _{fe}	Small-Signal Common-Emitter Forward Current Transfer Ratio	V _{CE} = 20 V, I _C = 20 mA, f = 20 MHz		3.5 10		3.5 10		3.5 10		
C _{cb}	Collector-Base Capacitance	V _{CB} = 20 V, I _E = 0, f = 1 MHz, See Note 5		3		3		3		pF

- NOTES: 4. These parameters must be measured using pulse techniques. t_w = 300 μs, duty cycle ≤ 2%.
5. C_{cb} measurement employs a three-terminal capacitance bridge incorporating a guard circuit. The emitter is connected to the guard terminal of the bridge.