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2N5449 2N5450 2N5451

NPN SILICON TRANSISTOR

JEDEC TO-92-18R CASE

MAXIMUM RATINGS (TA=25°C)

	SYMBOL	<u>2N5449</u>	<u>2N5450</u>	<u>2N5451</u>	<u>UNITS</u>
Collector-Base Voltage	V _{CBO}	50	50	40	V
Collector-Emitter Voltage	V _{CEO}	30	30	20	V
Emitter-Base Voltage	V _{EBO}		5.0		V
Collector Current	lc		800		mA
Power Dissipation	P_{D}		625		mW
Operating and Storage Junction Temperature	T_{J}, T_{stg}		-65 to +150		°C
Thermal Resistance	⊕JA		200		°C/W

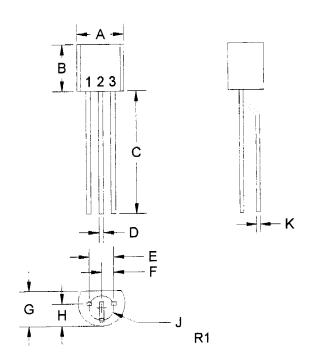
ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

		2N	15449	2N:	5450	2N:	5451	
SYMBOL	TEST CONDITIONS	MIN	MAX	<u>MIN</u>	MAX	<u>MIN</u>	MAX	<u>UNITS</u>
Ісво	V _{CB} =20V		100		100		100	nA
^I EBO	V _{BE} =3.0V		100		100		100	nA
BV _{CBO}	I _C =100μA	50		50		40		V
BV _{CEO}	I _C =10mA	30		30		20		V
BV _{EBO}	I _E =100μA	5.0		5.0		5.0		V
V _{CE(SAT)}	I _C =100mA, I _B =5.0mA		0.6		8.0		1.0	V
V _{BE(ON)}	V _{CE} =2.0V, I _C =100mA	0.5	1.0	0.5	1.0	0.5	1.0	V
hFE	V _{CE} =2.0V, I _C =50mA	100	300	50	150	30	600	
c_{cb}	V _{CB} =10V, I _E =0, f=1.0MHz		12		12		12	pF
h _{fe}	V_{CE} =2.0V, I_{C} =50mA, f=20MHz	5.0		5.0		5.0		

NJ Semi-Conductors reserves the right to change test conditions, parameters 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.

Quality Semi-Conductors

TO-92-18R PACKAGE - MECHANICAL OUTLINE



	DIM	ENSION			
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MiN	MAX	
A (DIA)	0.175	0.205	4.45	5.21	
В	0.170	0.210	4.32	5.33	
С	0.500	•	12.70	•	
D	0.016	0.022	0.41	0.56	
E	0.100		2.54		
F	0.050		1.27		
G	0.125	0.165	3.18	4.19	
Н	0.080	0.105	2.03	2.67	
J (DIA)	0.100		2.54		
K	0.015		0.38		
TO 02-18R (REV: R1)					

TO-92-18R (REV: R1)

Lead Code:

- Collector
 Base
 Emitter