

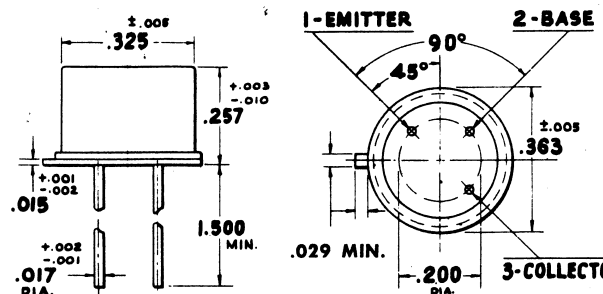
2N332 - 2N336
thru
2N332A - 2N336A

NPN Silicon
Diffused Transistors

APPLICATIONS

These transistors are general purpose silicon diffused transistors intended for amplifier applications in the audio and RF range and for general purpose switching applications. These units are highly stable and their variation in gain with current and temperature is less than with grown junction types.

MECHANICAL OUTLINE



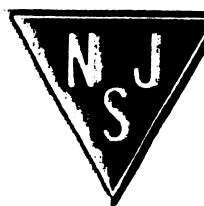
ALL DIMENSIONS IN INCHES

MAXIMUM RATINGS

Maximum Dissipation - Free Air **500mW**
Maximum Operating and/or Storage Temperature **-65 to 200 °C**

DESIGN CHARACTERISTICS AT 25°C (Except as Noted)

SYMBOL	TEST CONDITIONS	2N332 Min. Max.	2N332A Min. Max.	2N333 Min. Max.	2N333A Min. Max.	2N334 Min. Max.	2N334A Min. Max.	2N335 Min. Max.	2N335A Min. Max.	2N336 Min. Max.	2N336A Min. Max.	UNIT
BV _{CEO}	I _C =50μA, I _E =0	45 -	45 -	45 -	45 -	45 -	45 -	45 -	45 -	45 -	45 -	
BV _{CE0}	I _C =1mA, I _B =0	- -	45 -	- -	45 -	- -	45 -	- -	45 -	- -	45 -	
BV _{EBO}	I _E =100μA, I _C =0	1 -	4 -	1 -	4 -	1 -	4 -	1 -	4 -	1 -	4 -	
I _{CB0}	V _{CB} =30V, I _E =0	- 2	- 0.5	- 2	- 0.5	- 2	- 0.5	- 2	- 0.5	- 2	- 0.5	μA
I _{CB0}	V _{CB} =5V, I _E =0, T=150°C	- 50	- 10	- 50	- 10	- 50	- 10	- 50	- 10	- 50	- 10	μA
I _{CB0}	V _{CB} =30V, I _E =0, T=150°C	- -	- 20	- -	- 20	- -	- 20	- -	- 20	- -	- 20	μA
h _{fe}	I _C =1μA, V _{CB} =5V, f=1kc	9 - 22	9 - 22	18 - 40	18 - 40	18 - 90	18 - 90	36 - 90	36 - 90	76 - 333	76 - 333	
h _{ib}	I _C =1μA, V _{CB} =5V, f=1kc	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	30 - 80	
h _{ob}	I _C =1μA, V _{CB} =5V, f=1kc	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	- 1.2	Ωm
h _{rb}	I _C =1μA, V _{CB} =5V, f=1kc	- 5	- 5	- 10	- 10	- 10	- 10	- 10	- 10	- 10	- 10	x10 ³
f _{αb}	I _C =1mA, V _{CB} =5V	1 -	2.5 -	2 -	2.5 -	8 -	8 -	2 -	2.5 -	2 -	2.5 -	m
C _{ob}	V _{CB} =5V, I _E =1mA	- 30	- 15	- 30	- 15	- 30	- 15	- 30	- 15	- 30	- 15	p
V _{CE(sat)}	I _C =5mA, I _B =2.2mA	- -	- 1	- -	- 1	- -	- 1	- -	- 1	- -	- 1	
R _{cs}	I _C =5mA, I _B =1mA	- 200	- -	- 200	- -	- 200	- -	- 200	- -	- 200	- -	



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.