

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

JEDEC TYPE # 2N541, 2N542, 2N543

TRANSITRON

TELEPHONE: (973) 376-2922
(212) 227-6005
FAX: (973) 376-8960

1. General Description:

This transistor is a NPN silicon triode transistor designed primarily for low level, IF and RF amplifier applications in the Audio & RF frequency range for industrial service.

11. Mechanical Data:

A. Outline Drawings

1. Outline is in accordance with TO-5 pkg.
2. Terminal Designation
 1. Emitter
 2. Base
 3. Collector

111. Absolute Maximum Ratings:

A. Maximum Temperature

1. Storage Temperature -65°C to 200°C
2. Lead Temperature, 1/16" ± 1/32" from case for 8 seconds 230°C

B. Maximum Reverse Rating

1. Emitter-base voltage @ 25°C 2N541 2N542 2N543
2. Collector-base voltage 2V 2V 2V
3. Collector-emitter voltage 15V 30V 45V

	2N541	2N542	2N543
1. Emitter-base voltage @ 25°C	2V	2V	2V
2. Collector-base voltage	15V	30V	45V
3. Collector-emitter voltage	15V	30V	45V

C. Maximum Current (DC)

1. Collector Current, I_C 25 ma.

D.

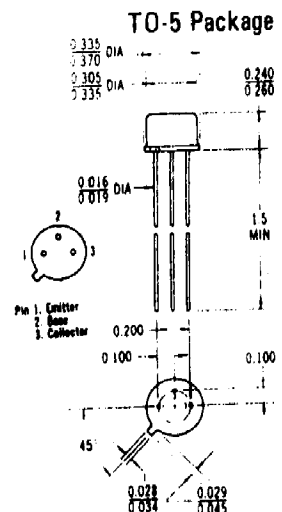
1. Maximum Power Dissipation @ 25°C ambient 0.2 watts
2. Derating Factor .0012 watts/°C

IV. Electrical Characteristics, 25°C:

A. Static Characteristics

1. Collector Current, I_{CBO}
Collector Current, I_{CBO} @ 150°C
Collector Voltage, $V_{CB} =$ Ratings of 111 -B2
2. Emitter Current, I_{EBO}
Emitter Voltage, $V_{EB} = 2V$
3. DC Saturation Voltage
Collector Current 5 ma
Base Current 2.2 ma

	Min.	Max.
I_{CBO}		0.5 μ a.
I_{CBO} @ 150°C		50 μ a.
I_{EBO}		0.5 μ a.
DC Saturation Voltage		1.5 V



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.