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JEDEC TYPE # 2N541, 2N542, 2N543

TRANSITRON

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.

II. Mechanical Data:
- A. Outline Drawings
  1. Outline is in accordance with TO-5 pkg.
  2. Terminal Designation
     1. Emitter
     2. Base
     3. Collector

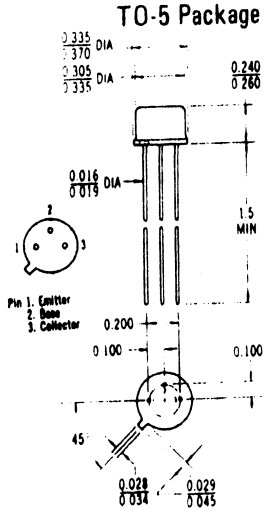
III. Absolute Maximum Ratings:

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	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

		Min.	Max.
1. Collector Current,	I_{CBO}		0.5 μa.
Collector Current,	I_{CBO} @ 150°C		50 μa.
Collector Voltage,	V_{CB} = Ratings of 111 −B2		
2. Emitter Current,	I_{EBO}		0.5 μa.
Emitter Voltage,	V_{EB} = 2V		
3. DC Saturation Voltage			1.5 V
Collector Current	5 ma		
Base Current	2.2 ma		

TO-5 Package



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