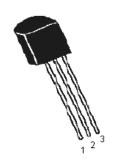
Bipolar Transistor







Pin Configuration:

- 1. Collector
- 2. Base
- 3. Emitter

General Description:

- Silicon Planar Epitaxial Transistors
- General Purpose Transistors Best Suited for use in Driver and Output Stages of Audio Amplifier

Absolute Maximum Ratings ($T_a = 25$ °C unless specified otherwise):

Description	Symbol	Value	Unit
Collector Emitter Voltage	V _{CEO}	45	
Collector Emitter Voltage	V _{CES}	50	V
Emitter Base Voltage	V_{EBO}	5	
Collector Current Continuous	I _C	800	
Collector Current Peak	I _{CM}	1,000	
Base Current Peak	I _{BM}	200	mA
Base Current Continuous	I _B	100	
Base Current Peak	I _{BM}	200	
Power Dissipation at T _a = 25°C Derate Above 25°C	P _D	625 5	mW mW/°C
Operating and Storage Junction Temperature Range	T_{j},T_{stg}	-65 to +150	°C
Thermal Resistance			

Thermal Resistance

Junction to Ambient in Free Air R_{th (j-a)} 200 °C/W





Bipolar Transistor



Electrical Characteristics ($T_a = 25$ °C unless specified otherwise):

Description	Symbol	Test Condition	Min.	Max.	Unit
Collector Emitter Voltage	V_{CEO}	$I_C = 1mA, I_B = 0$	45	-	
Collector Emitter Voltage	V _{CES}	$I_{\rm C} = 100 \mu \text{A}, I_{\rm E} = 0$	50	-	V
Emitter Base Voltage	V_{EBO}	$I_{E} = 10 \mu A, I_{C} = 0$	5	-	
Collector Cut off Current	I _{CBO}	$V_{CB} = 20V, I_{E} = 0$ $V_{CB} = 20V, I_{E} = 0, T_{i} = 150^{\circ}C$	-	100 5	nΑ μΑ
Emitter Cut off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	-	10	μΑ
Collector Emitter Saturation Voltage	*V _{CE (sat)}	I _C = 500mA, I _B = 50mA	-	0.7	V
Base Emitter On Voltage	*V _{BE (on)}	I _C = 500mA, V _{CE} = 1V	-	1.2	V

^{*}Pulse Test: Pulse Width ≤300µs, Duty Cycle ≤2%.

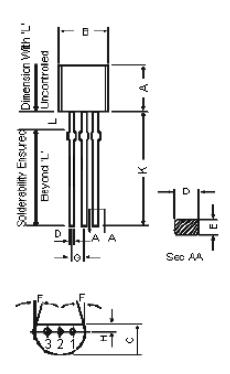
Electrical Characteristics ($T_a = 25$ °C unless specified otherwise):

Description	Symbol	Test Condition	Min.	Тур.	Max.	Unit
DC Current Gain	h _{FE}	$I_{\rm C}$ = 100mA, $V_{\rm CE}$ = 1V	100	400	ı	-
Small Signal Characteristics						
Transistors Frequency	f _T	$I_C = 10$ mA, $V_{CE} = 5$ V, f = 35MHz NPN	-	200	-	MHz
Input Capacitance	C _{ib}	V _{BE} = 10V, I _E = 0, f = 1MHz NPN	-	5	-	pF



Bipolar Transistor





Dimensions	Minimum	Maximum	
А	4.32	5.33	
В	4.45	5.2	
С	3.18	4.19	
D	0.41	0.55	
Е	0.35	0.5	
F	5°		
G	1.14	1.4	
Н	1.2	1.53	
K	12.7	-	
L	1.982	2.082	

Dimensions: Millimetres

Part Number Table

Description	Part Number		
Transistor, NPN, TO-92	BC337.25		

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