

Features

- NPN Silicon Planar Epitaxial Transistors.
- Complementary Transistors for use in Driver and Output Stages of Audio Amplifiers •

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit		
Collector-Emitter Voltage	Vceo	45			
Collector-Emitter Voltage	VCES	50	V		
Emitter-Base Voltage	Vebo	5			
Collector Current Continuous Peak	Iс Iсм	800 1	mA A		
Emitter Current Peak	lем	1	A		
Base Current Continuous	Ів	100	mA		
Base Current Peak	Івм	200	IIIA		
Power Dissipation at Ta = 25°C Derate above 25°C	Рта	625 5	mW mW/°C		
Operating and Storage Junction Temperature Range	ТJ, Tsтg	-65 to +150	°C		
Thermal Resistance					
From Junction to Ambient in Free Air	Rth(j-a)	200	°C / W		

Electrical Characteristics (TA = 25°C Unless Otherwise Specified)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Collector-Emitter Voltage	Vceo Vces	Ic = 10mA, Iв = 0 Ic = 100mA. IE = 0	45 50	-	-	V
Emitter-Base Voltage	Vebo	IE = 10mA, Ic = 0	5	-		
Collector-Cut off Current	Ісво	Vсв = 20V, IE = 0 Vсв = 20V, IE = 0, ТJ = 150°С	-	-	100 5	nΑ μΑ
Emitter Cut off Current	Іево	Veb = 5V, Ic = 0	-	-	10	μA
Collector Emitter Saturation Voltage	VCE (SAT) ¹	Ic=500mA, Iв=50mA	-	-	0.7	V
Base Emitter On Voltage	VBE (ON) ¹	Ic=500mA, Vce=1V		-	1.2	v
DC Current Gain	hFE*	IC = 100mA, VCE = 1V Group-10 Group-16 Group-25 Group-40	100 63 100 160 250	-	400 160 250 400 600	-
		Ic=500mA, VcE=1V	40	-	-	

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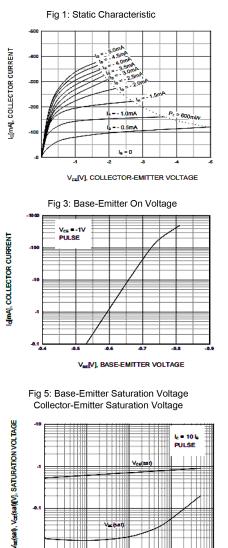
Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Small Signal Characteristics						
Transistors Frequency	fT	Ic = 10mA, Vce = 5V, f = 35MHz	-	200	-	MHz
Output Capacitance	Cob	Vсв = 10V, f = 1MHz	-	5	-	pF

Note:

1. Pulse Condition: Pulse Width ≤300µs, Duty Cycle ≤2%.

2. For PNP device voltage and current values will be negative (-).

Typical Characteristics Curves





I-ImAL COLLECTOR CURRENT

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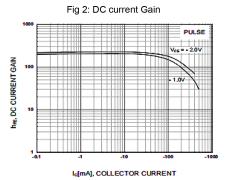
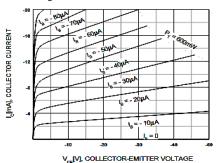
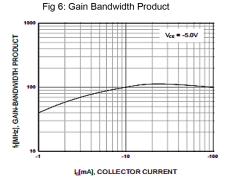
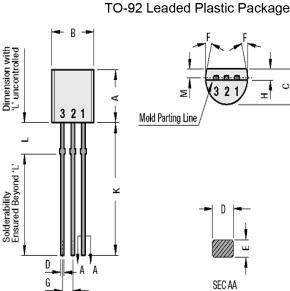


Fig 4: Static Characteristic





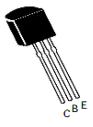
Diagram



2 Mold Parting Line

SEC AA

Dim.	Min.	Max.		
Α	4.32	5.33		
B	4.45	5.2		
С	3.18	4.19		
D	0.4	0.55		
Е	0.3	0.55		
F	5°			
G	1.14	1.4		
н	1.2	1.4		
К	12.7	-		
L	1.982	2.082		
М	1.03	1.2		



PIN Configuration 1. Emitter

2. Base 3. Collector

Part Number Table

	Description	Part Number
Dimensions : Millimetres	Bipolar (BJT) Single Transistor, NPN, 45V, 100MHz, 500mA,	BC337

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