

Order code	Manufacturer code	Description
81-0472	n/a	BC337-16 TRANSISTOR NPN TO-92 50V (RC)

	Page 1 of 2
The enclosed information is believed to be correct, Information may change 'without notice' due to product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	Revision A 04/07/2003

TECHNICAL SPECIFICATIONS OF NPN EPITAXIAL PLANAR TRANSISTOR

Description

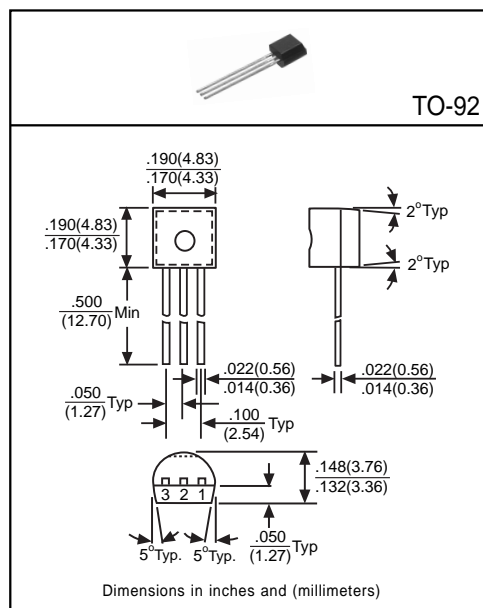
Designed for driver and output stage of audio amplifiers.

Pinning

- 1 = Collector
- 2 = Base
- 3 = Emitter

Absolute Maximum Ratings (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	50	V
Collector-Emitter Voltage	V _{CE0}	45	V
Emitter-Base Voltage	V _{EB0}	5	V
Collector Current	I _C	800	mA
Total Power Dissipation	P _D	625	mW
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-55 to +150	°C



Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV _{CB0}	50	-	-	V	I _C =100μA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CE0}	45	-	-	V	I _C =10mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EB0}	5	-	-	V	I _E =10μA, I _C =0
Collector Cutoff Current	I _{CBO}	-	-	0.1	μA	V _{CB} =45V, I _E =0
Collector-Emitter Saturation Voltage ⁽¹⁾	V _{CE(sat)}	-	-	0.7	V	I _C =500mA, I _B =50mA
Base-Emitter On Voltage ⁽¹⁾	V _{BE(on)}	-	-	1.2	V	I _C =300mA, V _{CE} =1V
DC Current Gain ⁽¹⁾	h _{FE1}	100	-	630	-	I _C =100mA, V _{CE} =1V
	h _{FE2}	40	-	-	-	I _C =300mA, V _{CE} =1V
Transition Frequency	f _T	-	210	-	MHz	I _C =10mA, V _{CE} =5V, f=100MHz
Output Capacitance	C _{ob}	-	4	-	pF	V _{CB} =10V, f=1MHz, I _E =0

(1)Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Classification of h_{FE1}

Rank	16	25	40
Range	100~250	160~400	250~630