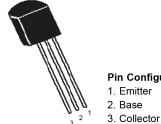
Transistor NPN, TO-92







Pin Configuration:

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

Absolute Maximum Ratings (Ta = 25°C unless specified otherwise)

Description	Symbol	Value	Unit			
Collector Emitter Voltage	Vceo	45				
Collector Emitter Voltage	Vces	50	V			
Emitter Base Voltage	Vebo	5				
Collector Current Continuous	lc	800				
Collector Current Peak	Ісм	1,000				
Base Current Peak	Івм	200	mA			
Base Current Continuous	Ів	100				
Base Current Peak	Івм	200				
Power Dissipation at Ta = 25°C Derate Above 25°C	Po	625 5	mW mW/°C			
Operating and Storage Junction Temperature Range	Tj, Tstg	- 65 to +150	°C			
Thermal Resistance						
Junction to Ambient in Free Air	Rth (j-a)	200	°C/W			





Description	Symbol	Symbol Test Condition		Minimum Maximum	
Collector Emitter Voltage	Vceo	Ic = 1mA, Iв = 0	45	-	
Collector Emitter Voltage	Vces	Ic = 100μΑ, Iε = 0	50	-	V
Emitter Base Voltage	Vebo	Iε = 10μΑ, Ic = 0	5		
Collector Cut off Current	Ісво	V _{CB} = 20V, I _E = 0 V _{CB} = 20V, I _E = 0, T _j = 150°C	-	100 5	nA μA
Emitter Cut off Current	Іев0	VEB = 5V, IC =0	-	10	μA
Collector Emitter Saturation Voltage	*VCE (sat)	Ic = 500mA, Iв = 50mA	-	0.7	V
Base Emitter On Voltage	*VBE (on)	Ic = 500mA, Vce = 1V	-	1.2	V

Electrical Characteristics (Ta = 25°C unless specified otherwise)

*Pulse Test: Pulse Width ≤300ms, Duty Cycle ≤2%.

Electrical Characteristics (Ta = 25°C unless specified otherwise)

Description	Symbol	Test Condition	Minimum	Typical	Maximum	Unit
DC Current Gain	hFE	Ic = 100mA, Vce = 1V	100	400	-	-

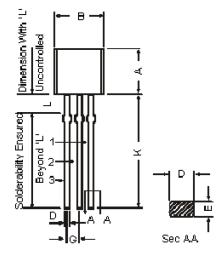
Small Signal Characteristics

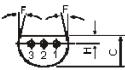
Transistors Frequency	fτ	Ic = 10mA, Vce = 5V f = 35MHz NPN	-	200	-	MHz
Input Capacitance	Cib	VBE = 10V, IE = 0, f = 1MHz NPN	-	5	-	pF



Transistor NPN, TO-92







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 Κ 12.7 -L 1.982 2.082

Dimensions : Millimetres

<u>-</u> 1	
- _†	C

Pin Configuration:

- 1. Emitter
- 2. Base

3. Collector

Part Number Table

Description	Vceo (V)	V _{CBO} Maximum (V)	lc (A)	hFE Minimum at Ic = 2mA	f⊤ Minimum (MHz)	Ptot (mW)	Package	Part Number
Transistor, NPN, TO-92	45	50	0.5	100	60	800	TO-92	BC337

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted in protein worker. This data sheet and is contents (the information) being the members of the Prenier Partiel group of comparing (the Group) of the necessary of the products is granted. The information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.

www.element14.com www.farnell.com www.newark.com

