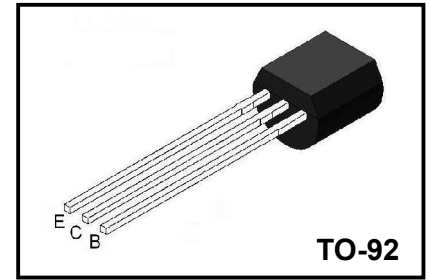


NPN Plastic-Encapsulate Transistors
Audio Frequency Amplifier Applications
Low Noise Amplifier Applications

- High voltage and high current: $V_{CE0} = 50\text{ V (min)}$,
 $I_C = 150\text{ mA (max)}$
- Complementary to 2SA1015.


Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	UNIT
Collector-Base Voltage	BV_{CBO}	60	V
Collector-Emitter Voltage	BV_{CEO}	50	V
Emitter-Base Voltage	BV_{EBO}	5	V
Collector Current	I_C	150	mA
Collector Power Dissipation	P_D	400	mW
Junction Temperature Storage Temperature	T_j, T_{stg}	-55~+150	°C

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	Value			Unit
			Min	Typ	Max	
Collector-base breakdown voltage	BV_{CBO}	$I_C = 100\mu\text{A}, I_E = 0$	60			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C = 1\text{mA}, I_B = 0$	50			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E = 100\mu\text{A}, I_C = 0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB} = 50\text{V}, I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			0.1	μA
DC current gain	h_{FE1}	$V_{CE} = 6\text{V}, I_C = 2\text{mA}$	70		700	
	h_{FE2}	$V_{CE} = 6\text{V}, I_C = 150\text{mA}$	25			
Collector-emitter saturation voltage	V_{CESAT}	$I_C = 100\text{mA}, I_B = 10\text{mA}$			0.3	V
base -emitter saturation voltage	V_{BESAT}	$I_C = 100\text{mA}, I_B = 10\text{mA}$			1.1	V
Transition frequency	f_T	$V_{CE} = 10\text{V}, I_B = 1\text{mA}$	80			MHz

hFE1 Classification

Classification	O	Y	GR	BL
hFE	70-140	120-240	200-400	350-700

Typical Characteristics

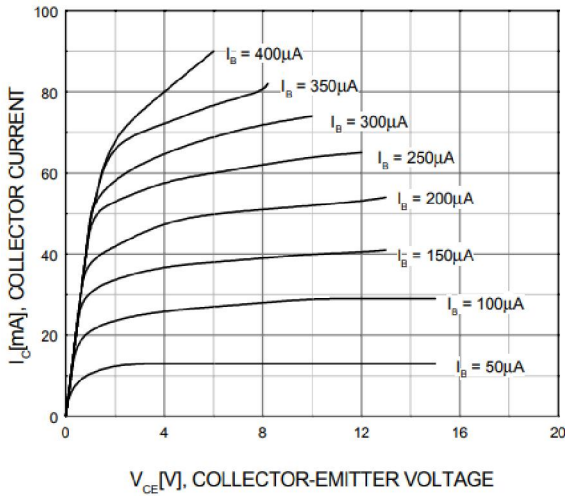


Fig.1 Static characteristics

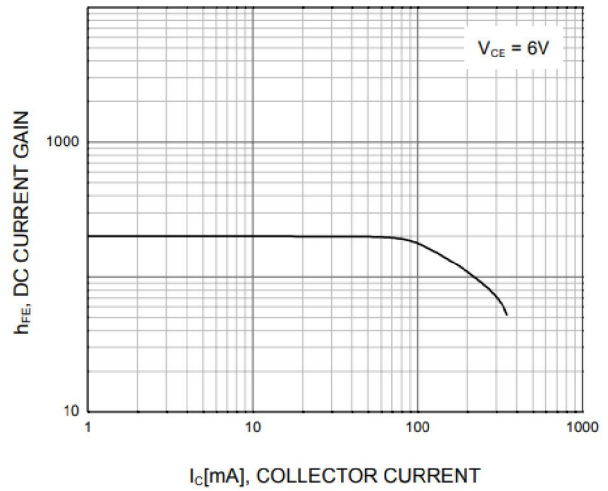
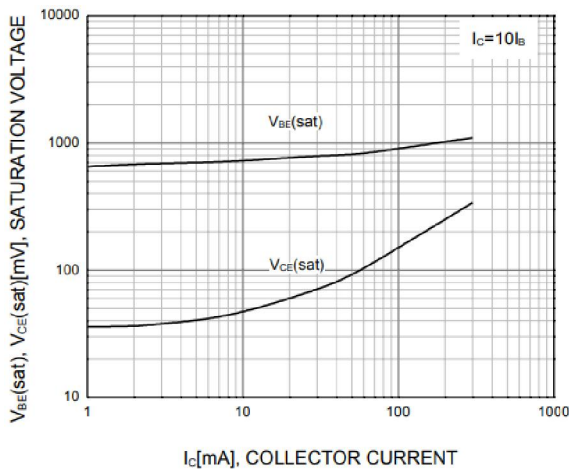


Fig.2 DC Current Gain



**Fig.3 Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage**

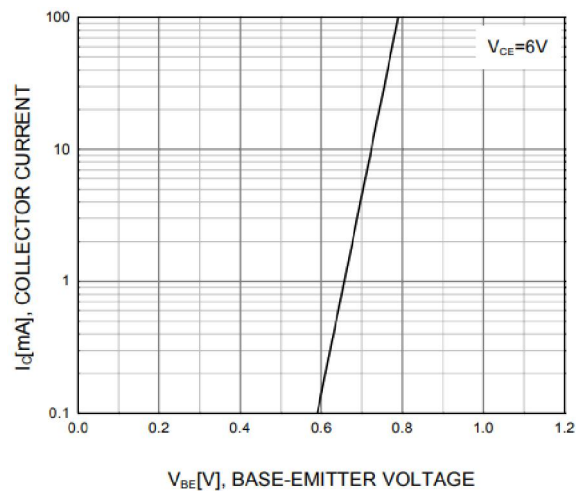


Fig.4 Base-Emitter on voltage

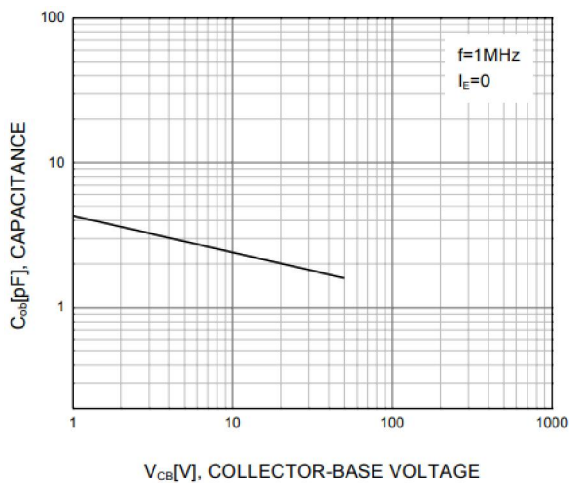


Fig.5 Collector Output Capacitance

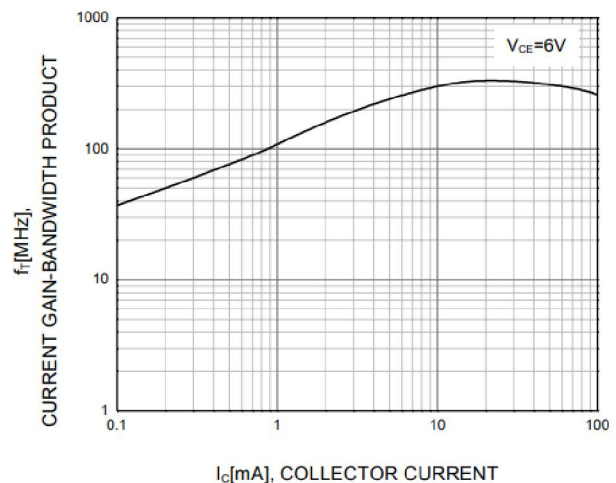


Figure 6. Current Gain Bandwidth Product

PackageDimensions

TO-92

	Symbol	Millimeter		Inches	
		Min.	Max.	Min.	Max.
	A	3.30	3.70	0.130	0.146
	A1	2.30	2.70	0.091	0.106
	b	0.40	0.50	0.016	0.020
	b1	0.50	0.70	0.020	0.028
	c	0.35	0.45	0.014	0.018
	D	4.45	4.70	0.175	0.185
	E	4.40	4.65	0.173	0.183
	e	1.17	1.37	0.046	0.054
	e1	2.34	2.64	0.092	0.104
	L	13.50	14.50	0.531	0.571
L1	1.80	2.20	0.071	0.087	

Product Specification Classification

Part Number	Package	Marking	Pack
2SC1815	TO-92	2SC1815 XXXXX	2000PCS/box

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT category](#):

Click to view products by [YFW Electronics manufacturer](#):

Other Similar products are found below :

[BC559C](#) [MCH4017-TL-H](#) [MMBT-2369-TR](#) [BC546/116](#) [NJVMJD148T4G](#) [NTE16](#) [NTE195A](#) [IMX9T110](#) [2N4401-A](#) [2N6728](#) [2SA1419T-TD-H](#) [2SB1204S-TL-E](#) [2SC5488A-TL-H](#) [FMC5AT148](#) [2N2369ADCSM](#) [2N2907A](#) [2N3904-NS](#) [2N5769](#) [2SC4618TLN](#) [CPH6501-TL-E](#) [US6T6TR](#) [BAX18/A52R](#) [BC556/112](#) [IMZ2AT108](#) [MMST8098T146](#) [MCH6102-TL-E](#) [BC846B-13-F](#) [2N3879](#) [30A02MH-TL-E](#) [NTE13](#) [NTE282](#) [NTE323](#) [NTE350](#) [NTE81](#) [JANTX2N2920L](#) [JANSR2N2907AUB](#) [CMLT3946EG TR](#) [SNSS40600CF8T1G](#) [CMLT3906EG TR](#) [GRP-DATA-JANS2N2907AUB](#) [GRP-DATA-JANS2N2222AUA](#) [MMDT3946FL3-7](#) [2N4240](#) [JANS2N3019](#) [MSB30KH-13](#) [2N2221AUB](#) [2SD1815T-TL-E](#) [2N6678](#) [2N2907Ae4](#) [JAN2N3507](#)