

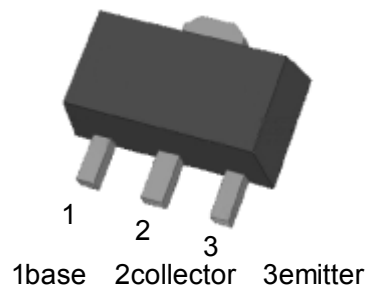
## SOT-89 NPN medium power transistor

### Feature

- High current (max. 1 A)
- Low voltage (max. 80 V).

### APPLICATIONS

- Driver stages of audio and video amplifiers.



### DESCRIPTION

- NPN medium power transistor in a SOT89 plastic
- package.

### ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Emitter Voltage	$V_{CEO}$	80	Vdc
Collector-Base Voltage	$V_{CBO}$	100	Vdc
Emitter-Base Voltage	$V_{EBO}$	5	Vdc
Collector Current(DC)	$I_C$	1	Adc
Peak Collector Current	$I_{CM}$	1.5	Adc
Peak Base Current	$I_{BM}$	0.2	Adc
Collector Power Dissipation	$P_C$	1.30	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55~150	°C

Note:1. Device mounted on a printed-circuit board, single sided copper, tinplated, mounting pad for collector 6 cm<sup>2</sup>.

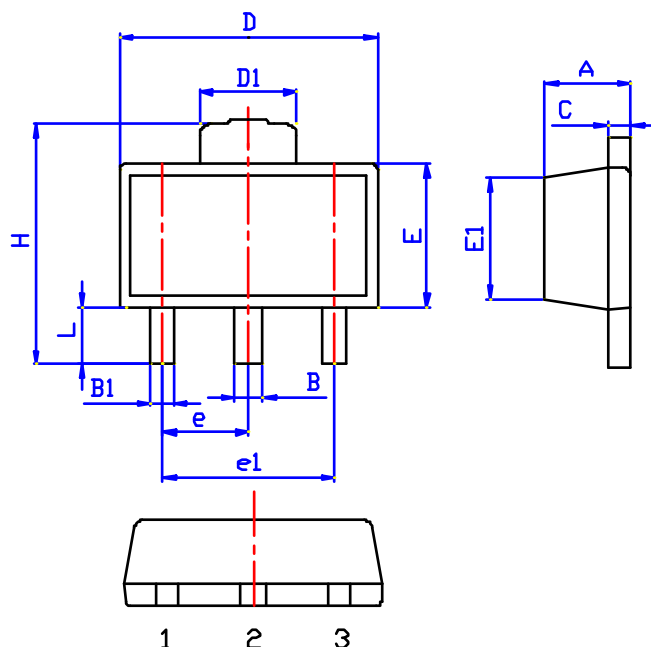
### hFE CLASSIFICATION

TYPE	BCX56	BCX56-10	BCX56-16
MARKING	BH	BK	BL
hFE RANGE	63~250	63~160	100~250

## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

Characteristic	Symbol	Test Condition	Min	Type	Max	Unit
Collector Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0	-	-	100	nA
		V <sub>CB</sub> =30V, I <sub>E</sub> =0, T <sub>j</sub> =150°C	-	-	10	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	100	nA
DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =2V, I <sub>C</sub> =5mA	63	-	-	-
		V <sub>CE</sub> =2V, I <sub>C</sub> =150mA	63	-	250	
		V <sub>CE</sub> =2V, I <sub>C</sub> =500mA	40	-	-	
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA	-	-	0.5	V
Base-Emitter Voltage	V <sub>BE</sub>	I <sub>C</sub> = 500mA; V <sub>CE</sub> = 2 V	-	-	1	V
Transition Frequency	f <sub>T</sub>	I <sub>C</sub> = 10 mA; V <sub>CE</sub> = 5 V; f = 100 MHz	-	130	-	MHz

## SOT-89 PACKAGE OUTLINE DIMENSIONS



DIM	MILLIMETERS	
	MIN.	MAX.
A	1.40	1.60
B	0.46	0.56
B1	0.36	0.48
C	0.35	0.44
D	4.40	4.60
D1	1.62	1.83
E	2.29	2.60
E1	---	---
e	1.50REF	
e1	3.00REF	
H	3.94	4.25
L	0.89	1.20

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