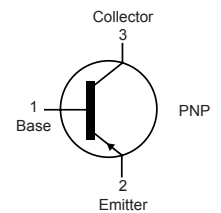
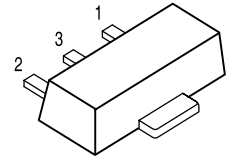


# PNP Medium Power Transistor



## Features:

- Low Voltage
- High Current

## Applications:

- Low voltage, high current LF applications
- Complement to BC868

## Pin Configuration:

1. Base
2. Emitter
3. Collector

## Maximum Ratings

Parameter	Symbol	Value	Unit
Collector - Base Voltage	$V_{CBO}$	-32	V
Collector - Emitter Voltage	$V_{CEO}$	-20	
Emitter - Base Voltage	$V_{ebo}$	-5	
DC Collector Current	$I_C$	-1	A
Collector Current - Peak	$I_{CM}$	-2	
Peak Base Current	$I_{BM}$	-200	mA
Total Power Dissipation ( $T_{AMB} < 25^{\circ}C$ )	$P_{TOT}$	1.35	W
Junction and Storage Temperature	$T_j, T_{stg}$	-65 to +150	$^{\circ}C$

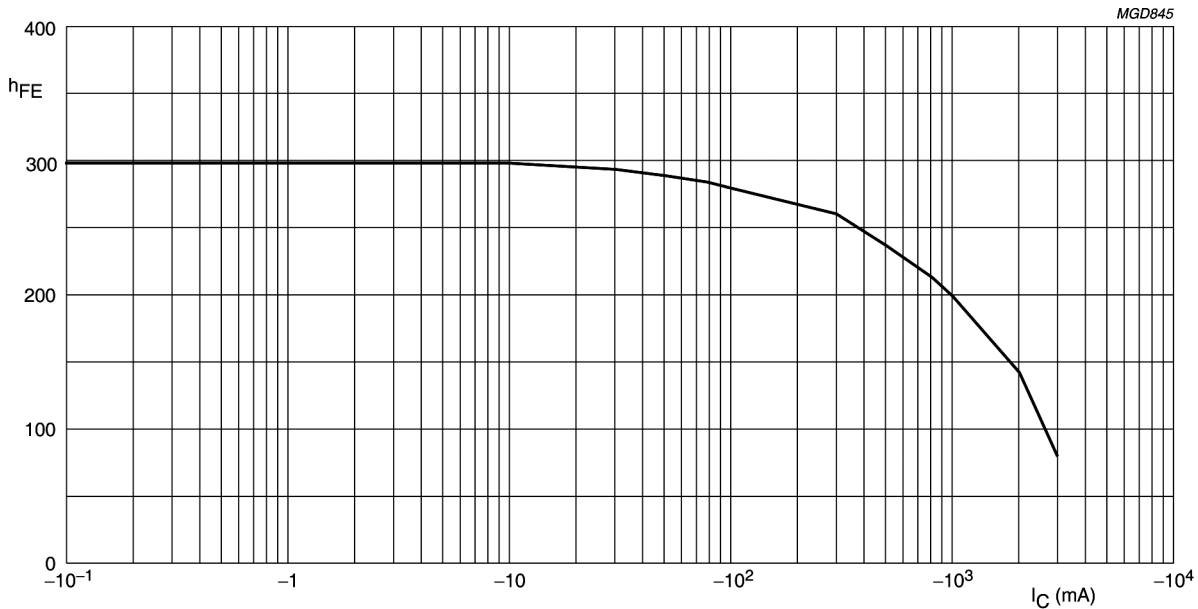
# PNP Medium Power Transistor

## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = -25\text{V}, I_E = 0$ $V_{CB} = -25\text{V}, I_E = 0, T_j = 150^\circ\text{C}$			-100 -10	nA $\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$			-10	nA
DC Current Gain	$h_{FE}$	$V_{CE} = -10\text{V}, I_C = -5\text{mA}$ $V_{CE} = -1\text{V}, I_C = -500\text{mA}$ $V_{CE} = -1\text{V}, I_C = -1\text{A}$	50 100 60		375	
Collector - Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -1\text{A}, I_B = -100\text{mA}$			-0.5	V
Base Emitter Voltage	$V_{BE}$	$I_C = -1\text{A}, V_{CE} = -1\text{V}$			-1	
Transition Frequency	$f_T$	$V_{CE} = -5\text{V}, I_C = -10\text{mA},$ $f = 100\text{MHz}$	40			MHz

## Typical Characteristics: $T_a = 25^\circ\text{C}$ unless otherwise specified

### Ratings & Characteristic Curves



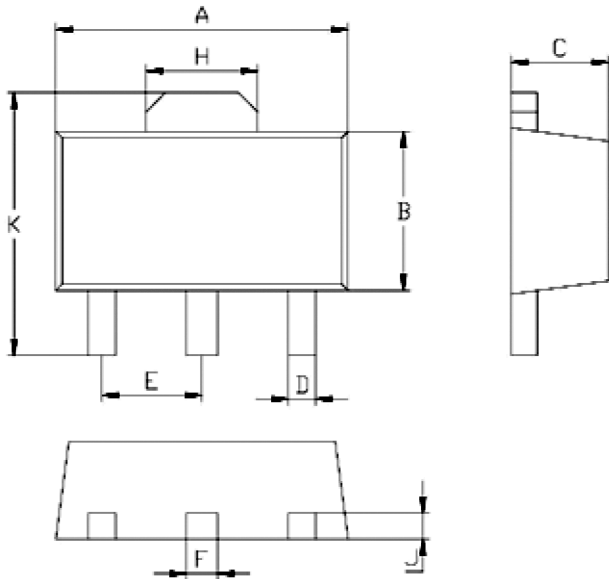
$V_{CE} = -1\text{V}$ .

DC current gain; typical values

# PNP Medium Power Transistor

## Package Outline

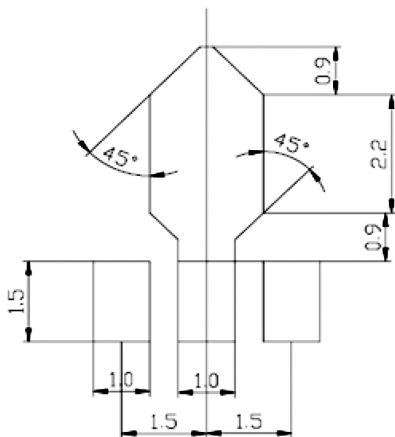
Plastic surface mounted package



Dimensions	Min.	Max.
A	4.5	4.7
B	2.3	2.7
C	1.5 Typical	
D	0.35	0.55
E	1.4	1.6
F	0.4	0.6
H	1.55	1.75
J	0.4 Typical	
K	4.15	4.25

Dimensions : Millimetres

## Soldering Footprint



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Transistor, PNP, 1A, 20V, SOT-89	BC869

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