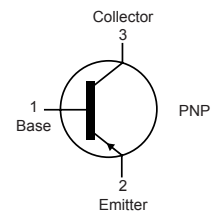
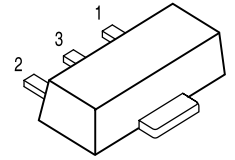
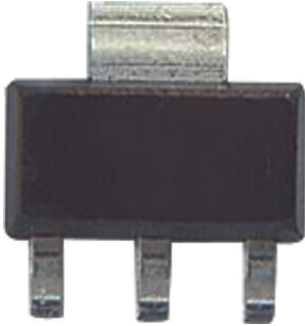


PNP Medium Power Transistor



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	$^{\circ}C$

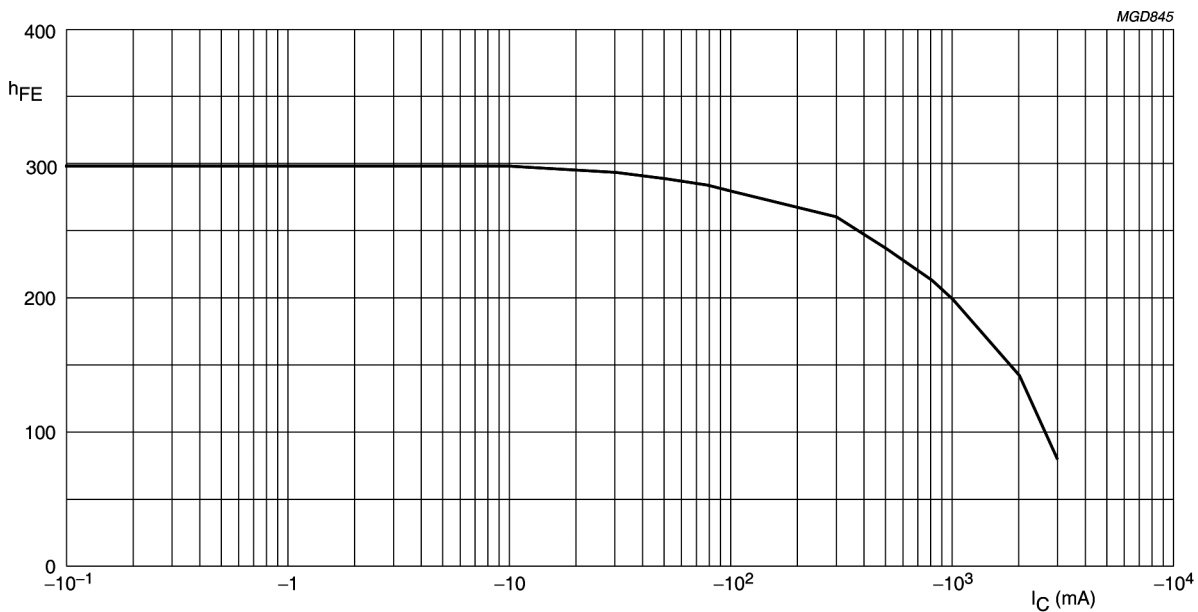
PNP Medium Power Transistor

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 μA
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



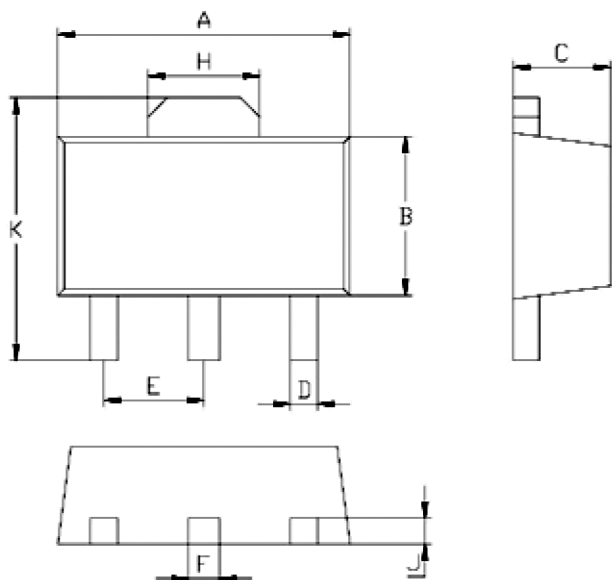
$V_{CE} = -1\text{V}$.

DC current gain; typical values

PNP Medium Power Transistor

Package Outline

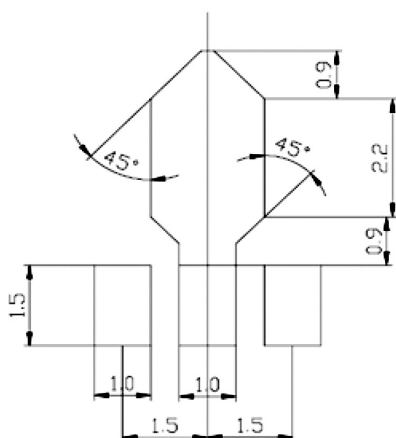
Plastic surface mounted package



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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