



Micro Commercial Components



Micro Commercial Components  
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# BD882HY

## NPN Plastic-Encapsulate Transistors

### Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: D882H

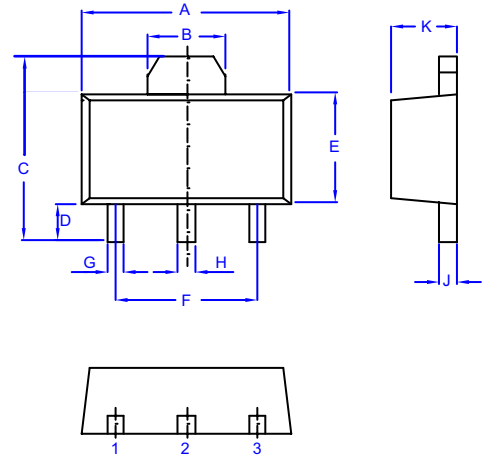
### Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	70	V
V <sub>CBO</sub>	Collector-Base Voltage	70	V
V <sub>EBO</sub>	Emitter-Base Voltage	6	V
I <sub>C</sub>	Collector Current-Continuous	3	A
P <sub>C</sub>	Collector Dissipation	0.5	W
R <sub>thJA</sub>	Thermal Resistance from Junction to Ambient	250	°C/W
T <sub>J</sub>	Operating Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
V <sub>(BR)CEO</sub>	Collector-Emitter Breakdown Voltage (I <sub>C</sub> =10mA, I <sub>B</sub> =0)	70	---	---	Vdc
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =100µA, I <sub>E</sub> =0)	70	---	---	Vdc
V <sub>(BR)EBO</sub>	Collector-Emitter Breakdown Voltage (I <sub>E</sub> =100µA, I <sub>C</sub> =0)	6	---	---	Vdc
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =40Vdc, I <sub>E</sub> =0)	---	---	1	µA
I <sub>CEO</sub>	Collector Cutoff Current (V <sub>CE</sub> =30Vdc, I <sub>B</sub> =0)	---	---	10	µA
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =6Vdc, I <sub>C</sub> =0)	---	---	1	µA
h <sub>FE</sub>	DC Current Gain (I <sub>C</sub> =1A, V <sub>CE</sub> =2Vdc)	160	----	320	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =2A, I <sub>B</sub> =0.2A)	---	----	0.5	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =2A, I <sub>B</sub> =0.2A)	---	----	1.5	Vdc
f <sub>t</sub>	Transition frequency (V <sub>CE</sub> =5Vdc, f=10MHz, I <sub>C</sub> =0.1A)	50	---	---	MHz

### SOT-89

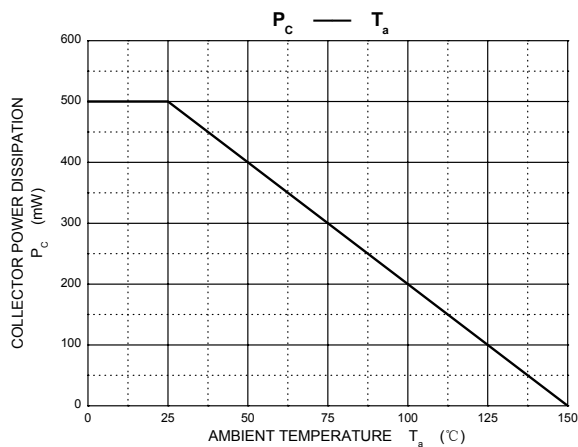
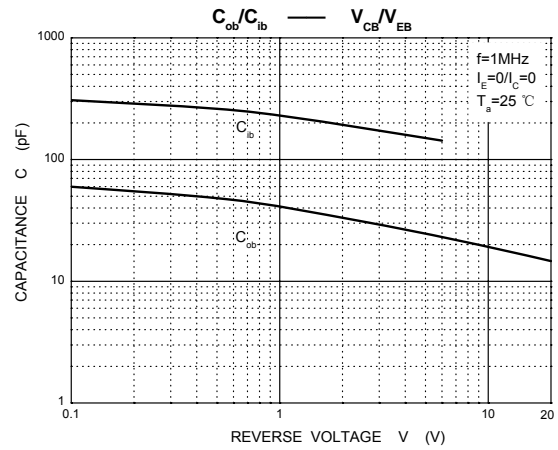
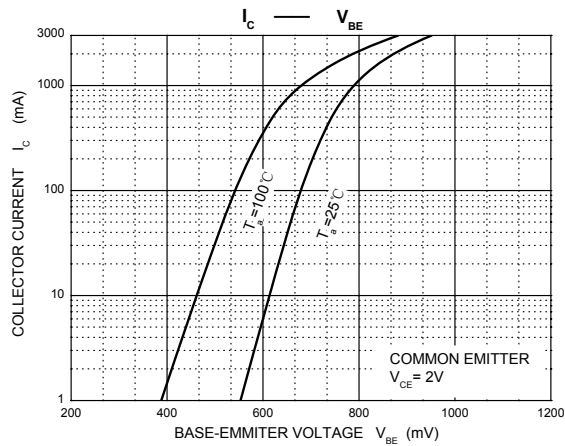
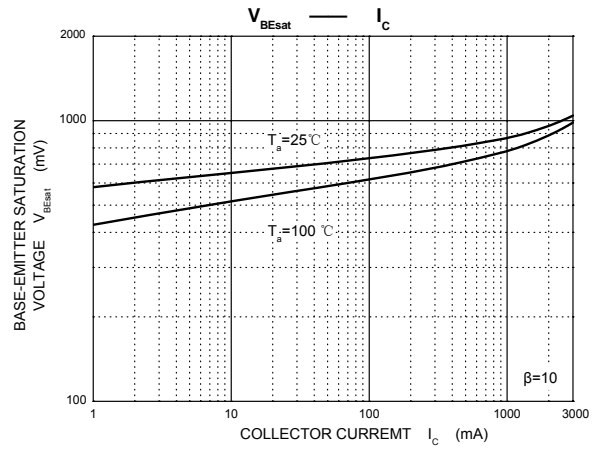
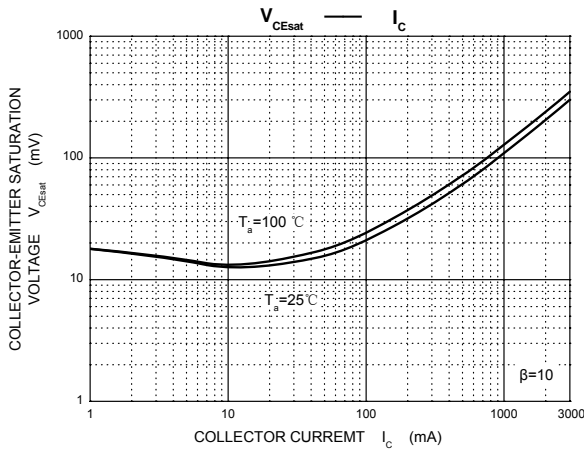
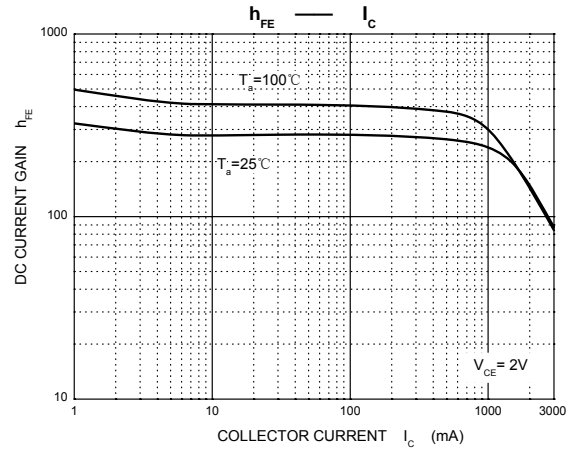
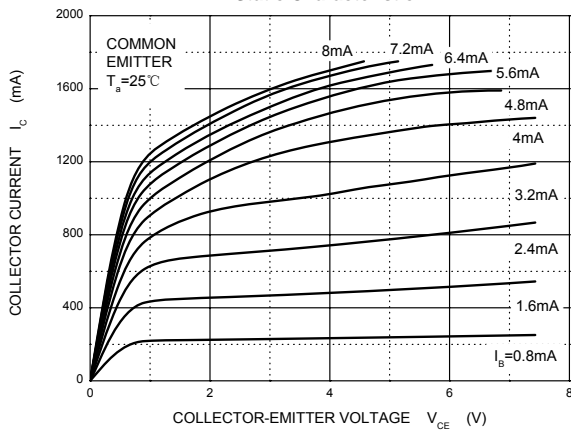


1. BASE
2. COLLECTOR
3. EMITTER

DIM	DIMENSINS				NOTES
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.061	----	1.55	----	REF.
C	.154	.165	3.91	4.25	
D	.031	.039	0.80	1.00	
E	.092	.100	2.34	2.54	
F	.118	----	3.00	----	TYP
G	.013	.019	0.33	0.48	
H	.015	.021	0.38	0.53	
J	.015	.016	0.38	0.41	
K	.055	.063	1.40	1.60	

# Typical characteristics

Static Characteristic





## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel; 1Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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