Micro Commercial Components

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BD882-R
BD882-O
BD882-Y
BD882-GR

Silicon
NPN epitaxial planer
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
- Moisure Sensitivity Level 1
- Marking: D882

Maximum Ratings @ 25°C Unless Otherwise Specified

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Voltage	40	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current-Continuous	3	A
P_C	Collector Dissipation	0.5	W
T_J	Operating Junction Temperature	150	℃
T_{STG}	Storage Temperature	-55 to +150	℃

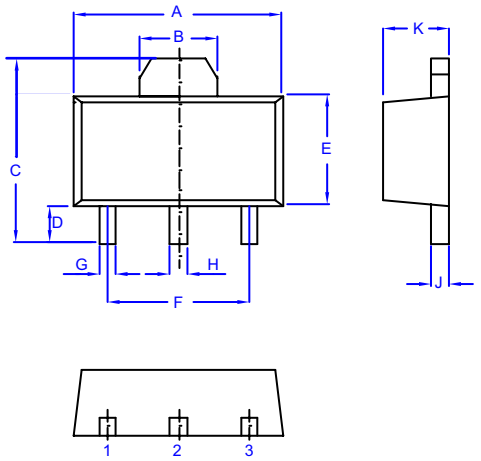
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage (I_C=10mAdc, I_B=0)	30	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (I_C=100uAdc, I_E=0)	40	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage (I_E=100uAdc, I_C=0)	6	---	---	Vdc
I_{CBO}	Collector Cutoff Current (V_{CB}=40Vdc, I_E=0)	---	---	1	uAdc
I_{CEO}	Collector Cutoff Current (V_{CB}=30Vdc, I_B=0)	---	---	10	uAdc
I_{EBO}	Emitter Cutoff Current (V_{EB}=6Vdc, I_C=0)	---	---	1	uAdc
h_{FE}	DC Current Gain (I_C=1Adc, V_{CE}=2Vdc)	60	----	400	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage (I_C=2Adc, I_B=0.2Adc)	---	----	0.5	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage (I_C=2Adc, I_B=0.2Adc)	---	----	1.5	Vdc
f_t	Transition frequency (V_{CE}=5Vdc, f=10MHz, I_C=0.1A)	50	---	---	MHz

CLASSIFICATION OF h_{FE}

Rank	R	O	Y	GR
Range	60-120	100-200	160-320	200-400

SOT-89



1. BASE
2. COLLETOR
3. EMITTER

DIMENSINS					
DIM	INCHES		MM		NOTES
	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

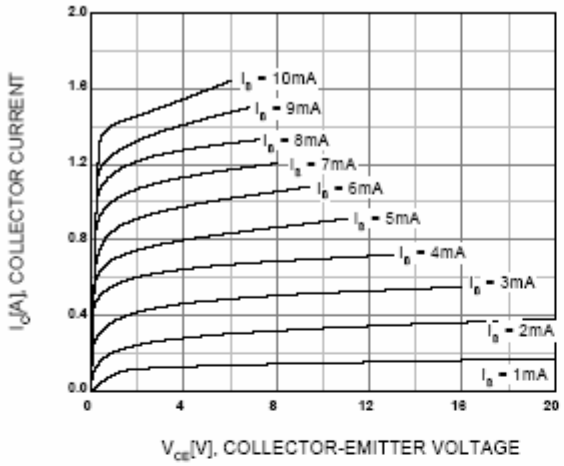


Figure 1. Static Characteristic

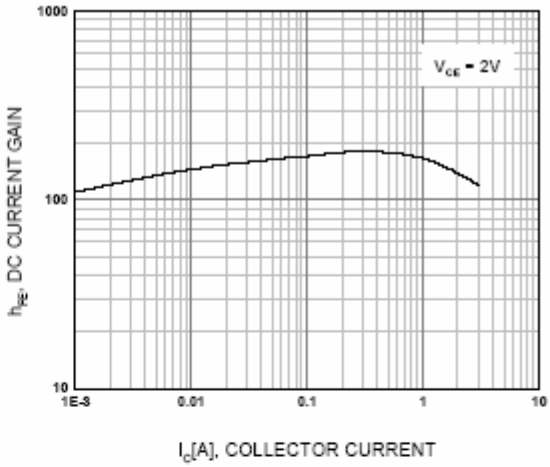


Figure 2. DC current Gain

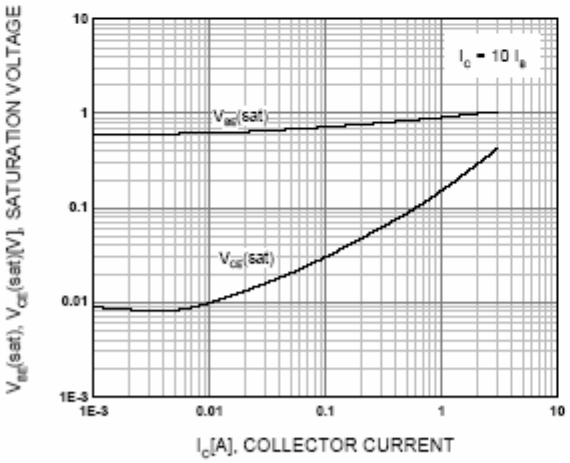


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

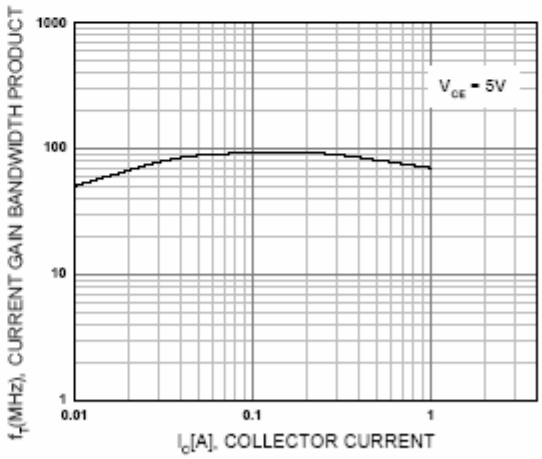


Figure 4. Current Gain Bandwidth Product

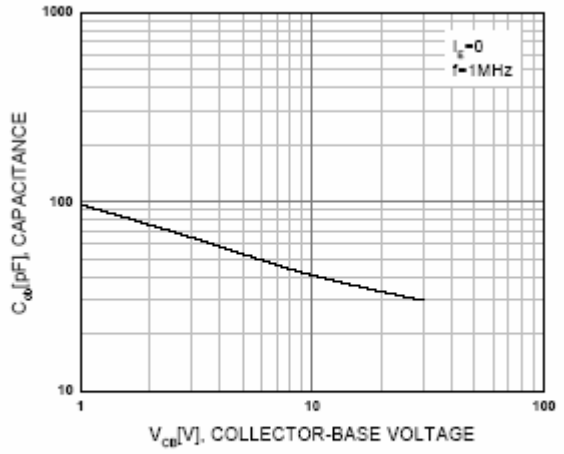


Figure 5. Collector Output Capacitance

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Ordering Information :

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

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

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