



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

Features

- 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: 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	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

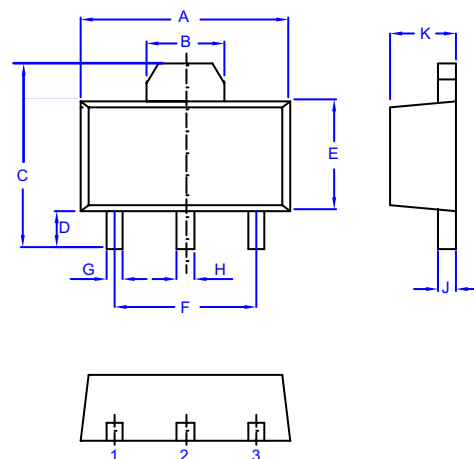
Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10\text{mA}$, $I_B=0$)	30	---	---	Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	40	---	---	Vdc
$V_{(BR)EBO}$	Collector-Emitter Breakdown Voltage ($I_E=100\mu\text{A}$, $I_C=0$)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

CLASSIFICATION OF h_{FE}

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

Silicon
NPN epitaxial planer
Transistors

SOT-89



1. BASE
2. COLLECTOR
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

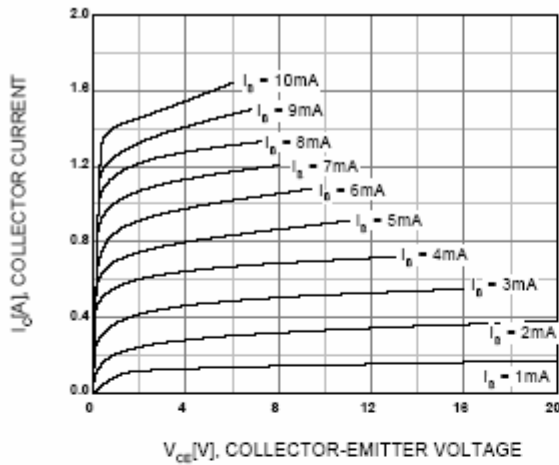


Figure 1. Static Characteristic

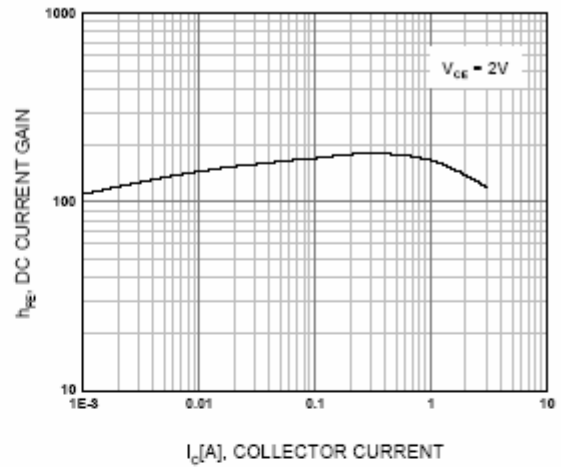


Figure 2. DC current Gain

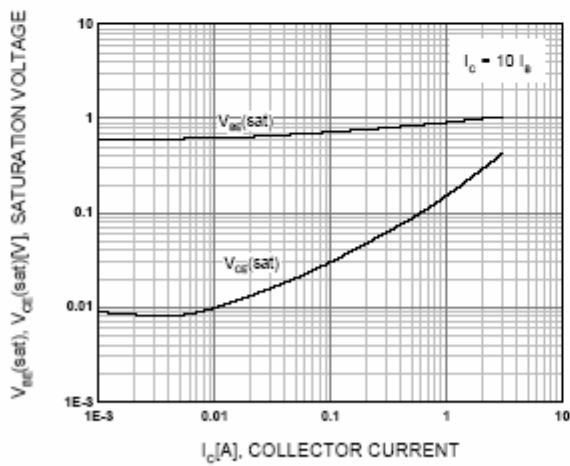


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

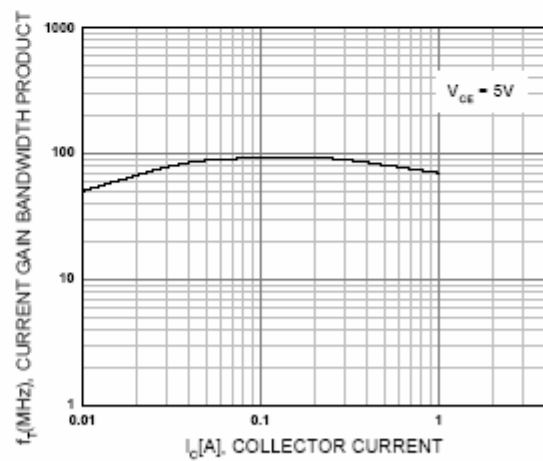


Figure 4. Current Gain Bandwidth Product

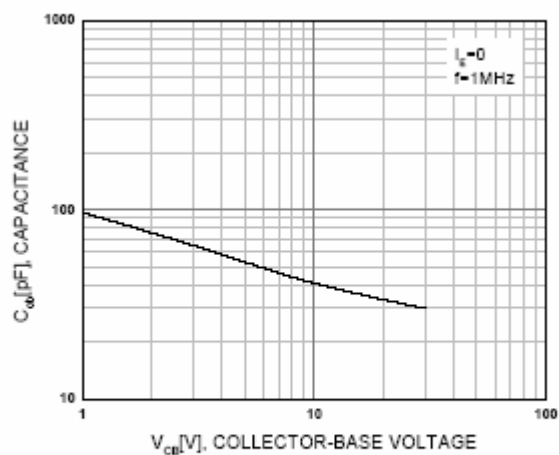


Figure 5. Collector Output Capacitance



Ordering Information :

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

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