



Micro Commercial Components



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PXT3906

**PNP General
Purpose Amplifier**

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
- Capable of 500mWatts of Power Dissipation
- Marking:2A

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-40	V
V_{CBO}	Collector-Base Voltage	-40	V
V_{EBO}	Emitter-Base Voltage	-6.0	V
I_C	Collector Current, Continuous	-0.2	A
P_D	Power Dissipation	0.5	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

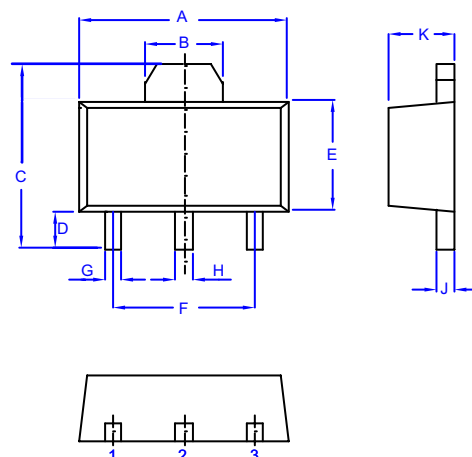
Symbol	Parameter	Min	Max	Units
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C=-1.0mA$, $I_B=0$)	-40		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=-10\mu A$, $I_E=0$)	-40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=-10\mu A$, $I_C=0$)	-6.0		Vdc
I_{CBO}	Collector cut-off Current ($V_{CB}=-30Vdc$, $I_E=0$)		-0.05	μA
I_{EBO}	Emitter cut-off Current ($V_{EB}=-6Vdc$, $I_C=0$)		-0.05	μA
h_{FE}	DC Current Gain* ($I_C=-10mA$, $V_{CE}=-1.0Vdc$) ($I_C=-50mA$, $V_{CE}=-1.0Vdc$) ($I_C=-100mA$, $V_{CE}=-1.0Vdc$)	100 60 30	300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=-10mA$, $I_B=-1.0mA$) ($I_C=-50mA$, $I_B=-5.0mA$)		-0.25 -0.4	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C=-10mA$, $I_B=-1.0mA$) ($I_C=-50mA$, $I_B=-5.0mA$)	-0.65	-0.85 -0.95	Vdc
Cobo	Output Capacitance ($V_{CB}=-5.0Vdc$, $f=1.0MHz$, $I_E=0$)		4.5	pF
Cibo	Input Capacitance ($V_{EB}=-0.5Vdc$, $f=1.0MHz$, $I_C=0$)		10	pF
f_T	Current Gain-Bandwidth Product ($I_C=-10mA$, $V_{CE}=-20Vdc$, $f=100MHz$)	250		MHz
NF	Noise Figure ($V_{CE}=-5.0V$, $f=1.0kHz$, $I_C=-100\mu A$, $R_s=1.0K$)		4.0	dB

SWITCHING CHARACTERISTICS

t_d	Delay Time	($V_{CC}=-3.0Vdc$, $V_{BE}=-0.5Vdc$)	35	ns
t_r	Rise Time	($I_C=-10mA$, $I_{B1}=-1.0mA$)	35	ns
t_s	Storage Time	($V_{CC}=-3.0Vdc$, $I_C=-10mA$)	225	ns
t_f	Fall Time	($I_{B1}=I_{B2}=-1.0mA$)	75	ns

*Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2.0\%$

SOT-89



1:Base
2:Collector
3:Emitter

DIMENSIONS					
DIM	INCHES		MM		NOTES
	MIN	MAX	MIN	MAX	
A	.173	.181	4.39	4.60	
B	.063	.071	1.60	1.80	
C	.154	.165	3.91	4.19	
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	

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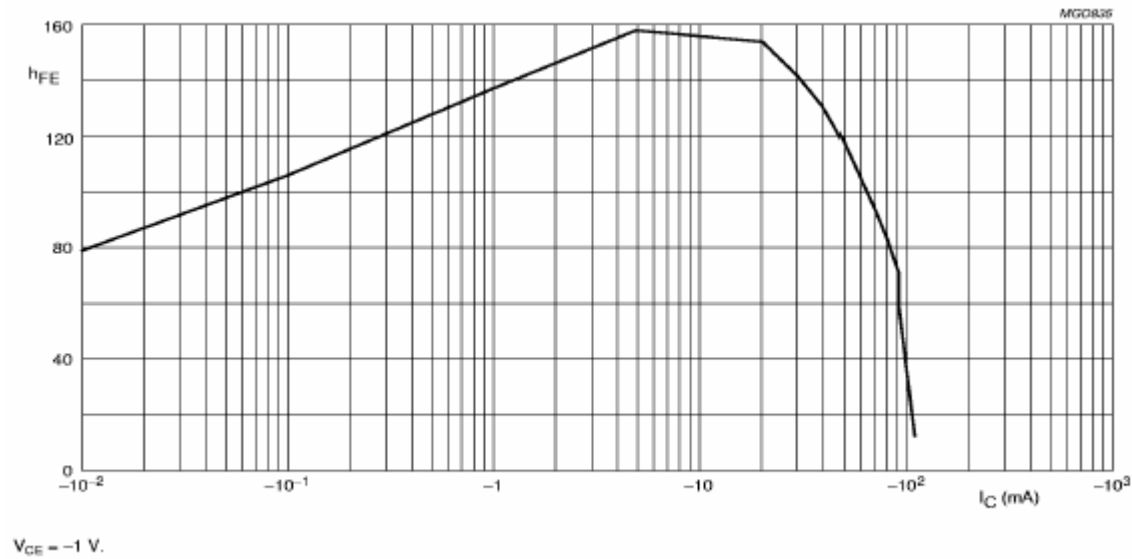


Fig.2 DC current gain; typical values.

Ordering Information :

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

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

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