



Micro Commercial Components



Micro Commercial Components
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2N3906

PNP General Purpose Amplifier

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- € Capable of 600mW of Power Dissipation and 200mA I_C
- € Epoxy meets UL 94 V-0 flammability rating
- € Moisture Sensitivity Level 1
- € Through Hole Package
- € Halogen free available upon request by adding suffix "-HF"
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* ($I_C = -1.0\text{mA}$, $I_B = 0$)	-40		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -10\mu\text{A}$, $I_E = 0$)	-40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E = -10\mu\text{A}$, $I_C = 0$)	-5.0		Vdc
I_{BL}	Base Cutoff Current ($V_{CE} = -30\text{Vdc}$, $V_{BE} = -3.0\text{Vdc}$)		-50	nAdc
I_{CEX}	Collector Cutoff Current ($V_{CE} = -30\text{Vdc}$, $V_{BE} = -3.0\text{Vdc}$)		-50	nAdc

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C = -0.1\text{mA}$, $V_{CE} = -1.0\text{Vdc}$) ($I_C = -1.0\text{mA}$, $V_{CE} = -1.0\text{Vdc}$) ($I_C = -10\text{mA}$, $V_{CE} = -1.0\text{Vdc}$) ($I_C = -50\text{mA}$, $V_{CE} = -1.0\text{Vdc}$) ($I_C = -100\text{mA}$, $V_{CE} = -1.0\text{Vdc}$)	60 80 100 60 30	300	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -10\text{mA}$, $I_B = -1.0\text{mA}$) ($I_C = -50\text{mA}$, $I_B = -5.0\text{mA}$)		-0.25 -0.4	Vdc
$V_{BE(sat)}$	Base-Emitter Saturation Voltage ($I_C = -10\text{mA}$, $I_B = -1.0\text{mA}$) ($I_C = -50\text{mA}$, $I_B = -5.0\text{mA}$)	-0.65	-0.85 -0.95	Vdc

SMALL-SIGNAL CHARACTERISTICS

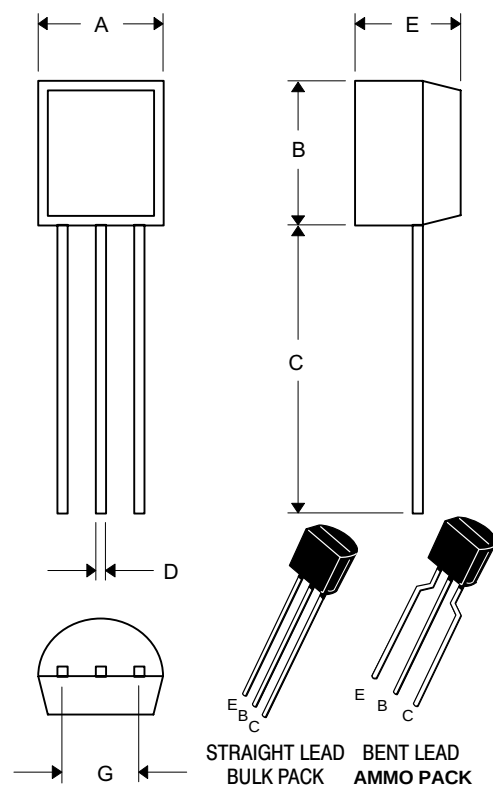
f_T	Current Gain-Bandwidth Product ($I_C = -10\text{mA}$, $V_{CE} = -20\text{Vdc}$, $f = 100\text{MHz}$)	250		MHz
C_{obo}	Output Capacitance ($V_{CB} = -5.0\text{Vdc}$, $I_E = 0$, $f = 100\text{kHz}$)		4.5	pF
C_{ibo}	Input Capacitance ($V_{BE} = -0.5\text{Vdc}$, $I_C = 0$, $f = 100\text{kHz}$)		10.0	pF
NF	Noise Figure ($I_C = -100\mu\text{A}$, $V_{CE} = -5.0\text{Vdc}$, $R_S = 1.0\text{k}\Omega$, $f = 10\text{Hz}$ to 15.7kHz)		4.0	dB

SWITCHING CHARACTERISTICS

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

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

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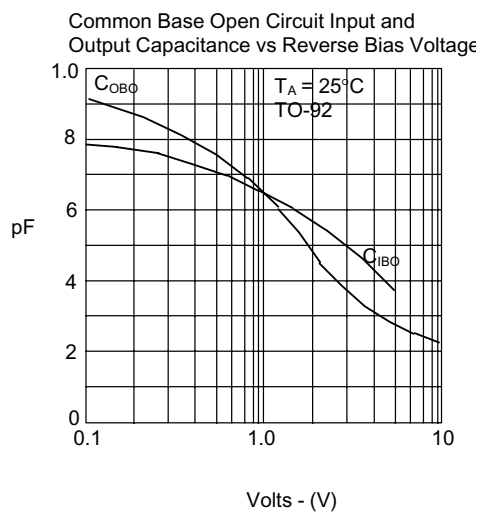
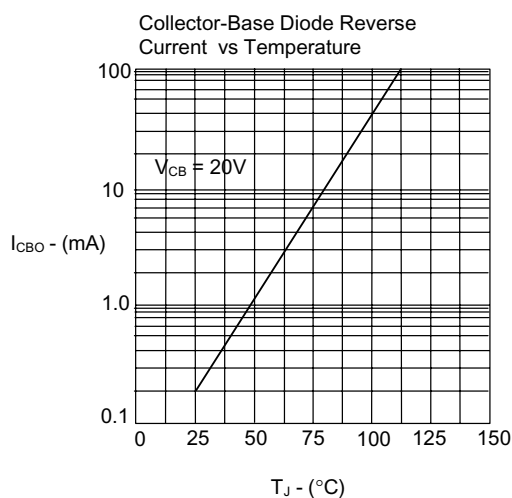
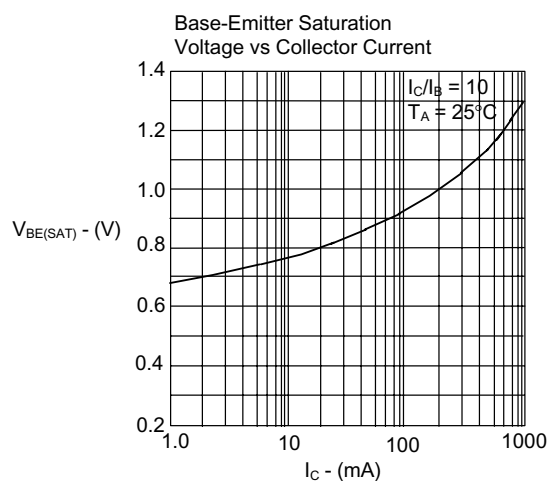
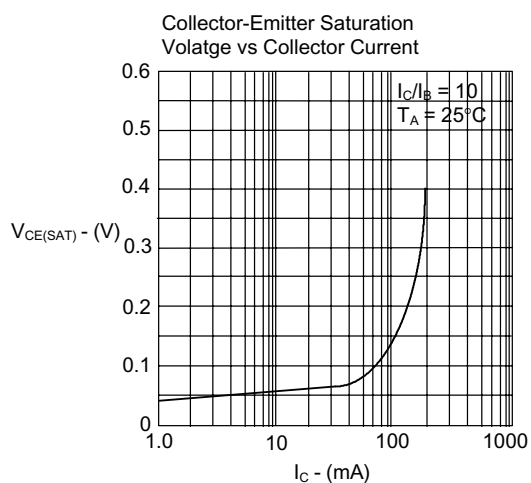
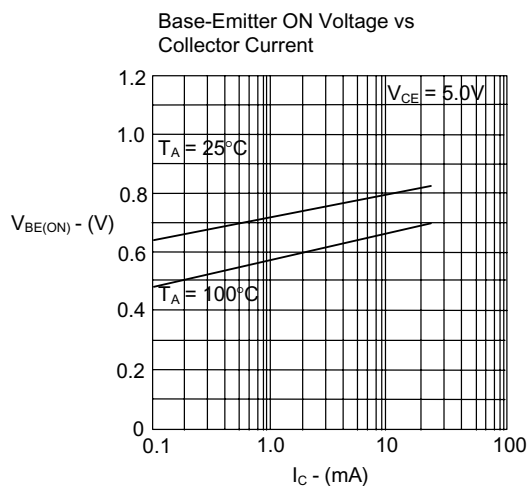
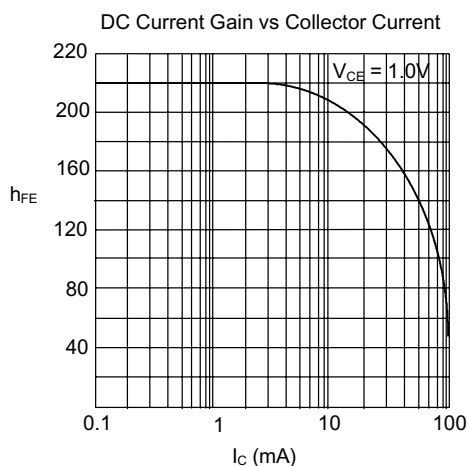


DIMENSIONS

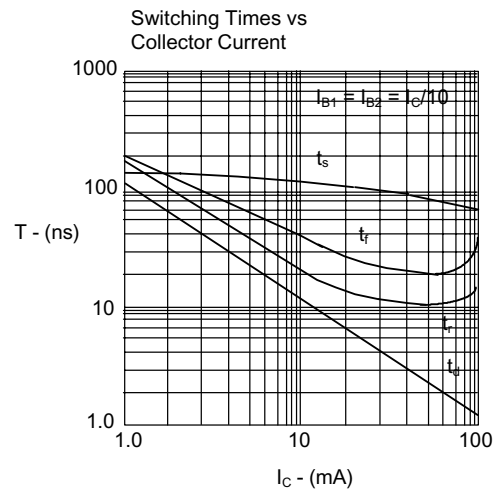
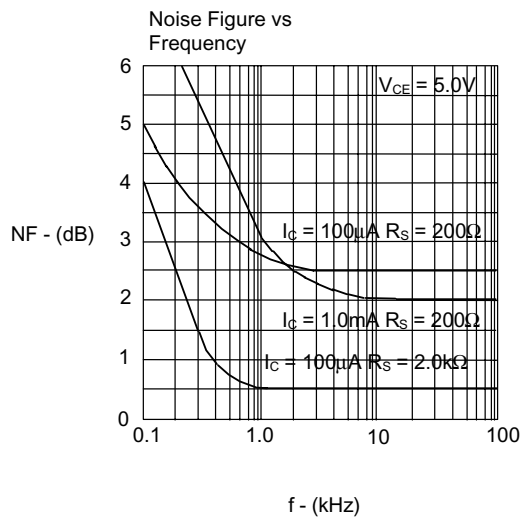
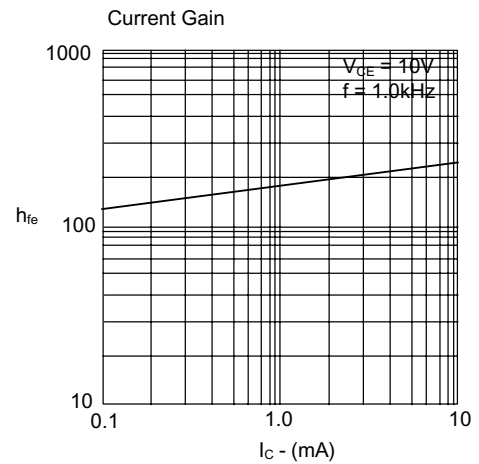
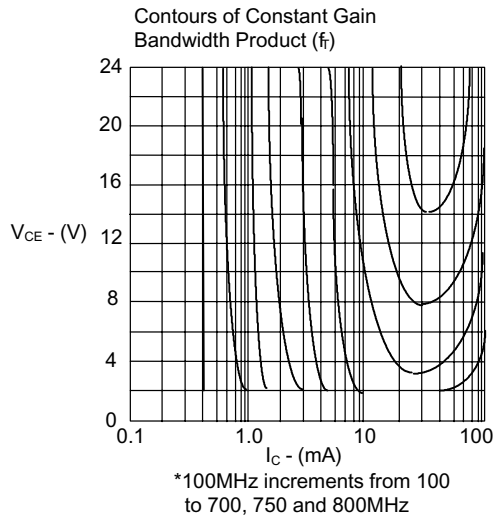
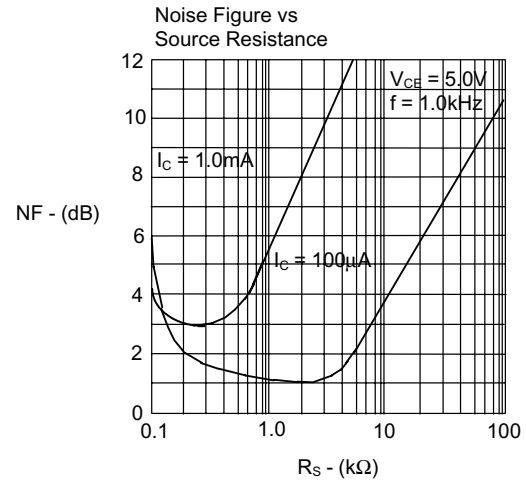
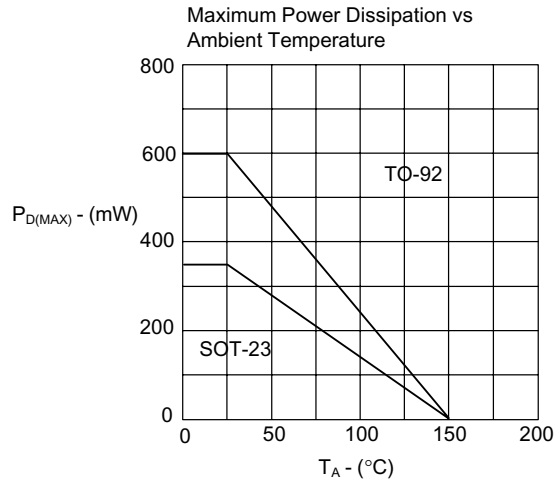
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

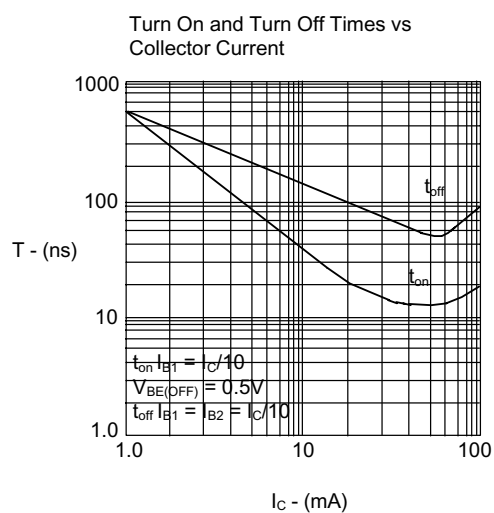
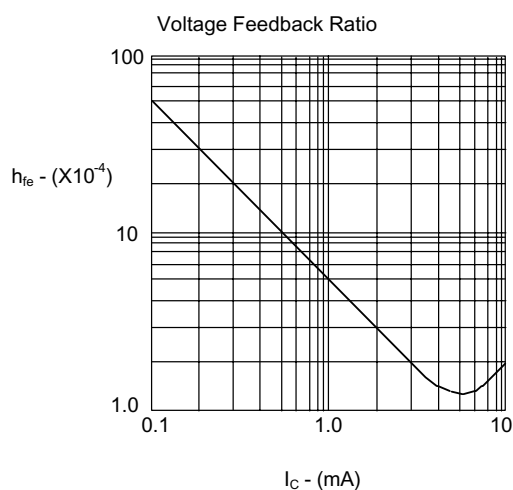
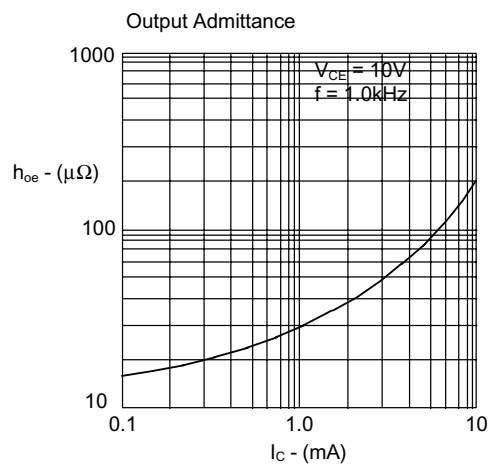
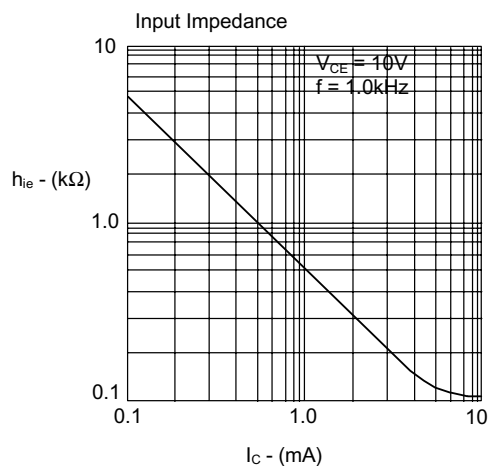
www.mccsemi.com



2N3906



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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

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<http://moschip.ru/get-element>

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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