



Micro Commercial Components

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2N3906

PNP General Purpose Amplifier

Features

- Through Hole Package
- Capable of 600mWatts of Power Dissipation and 200mA I_c.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: Type number
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
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 =10μA, I _E =0)	40		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10μA, I _C =0)	5.0		Vdc
I _{BL}	Base Cutoff Current (V _{CE} =30Vdc, V _{BE} =3.0Vdc)		50	nAdc
I _{CEx}	Collector Cutoff Current (V _{CE} =30Vdc, V _{BE} =3.0Vdc)		50	nAdc

ON CHARACTERISTICS

h _{FE}	DC Current Gain* (I _C =0.1mA, V _{CE} =1.0Vdc) (I _C =1.0mA, V _{CE} =1.0Vdc) (I _C =10mA, V _{CE} =1.0Vdc) (I _C =50mA, V _{CE} =1.0Vdc) (I _C =100mA, V _{CE} =1.0Vdc)	60 80 100 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

SMALL-SIGNAL CHARACTERISTICS

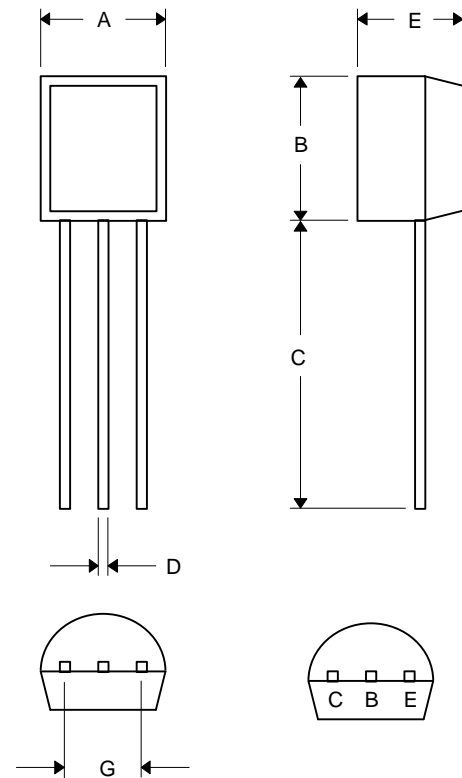
f _T	Current Gain-Bandwidth Product (I _C =10mA, V _{CE} =20Vdc, f=100MHz)	250		MHz
C _{obo}	Output Capacitance (V _{CB} =5.0Vdc, I _E =0, f=100MHz)		4.5	pF
C _{ibo}	Input Capacitance (V _{BE} =0.5Vdc, I _C =0, f=100kHz)		10.0	pF
NF	Noise Figure (I _C =100μA, V _{CE} =5.0Vdc, R _S =1.0kΩ f=10Hz to 15.7kHz)		4.0	dB

SWITCHING CHARACTERISTICS

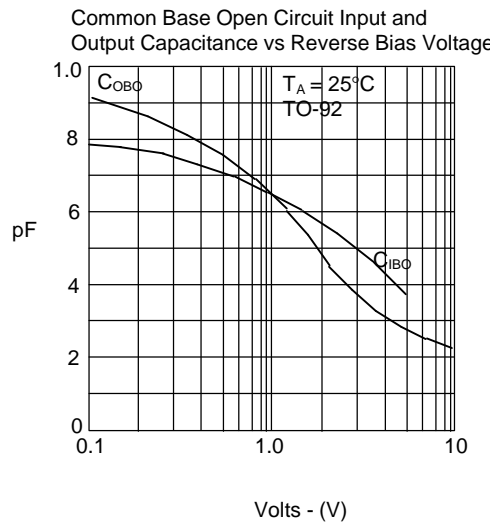
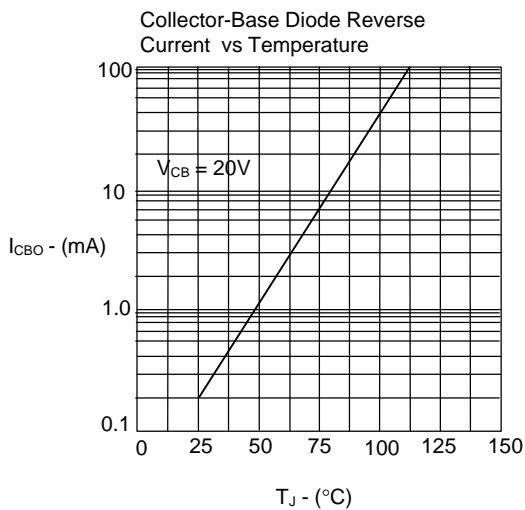
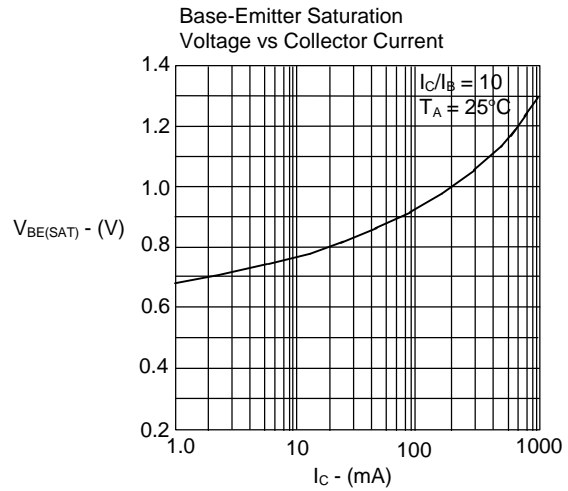
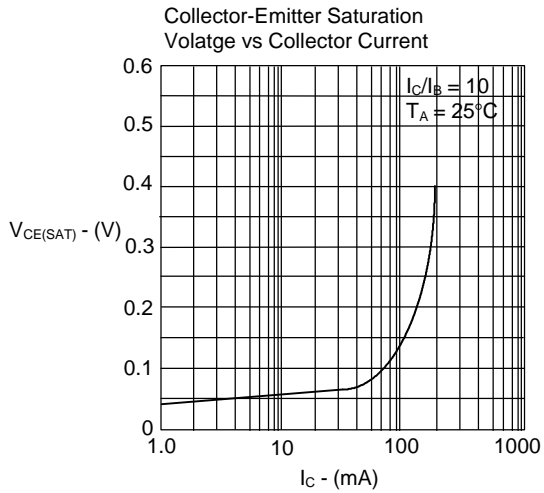
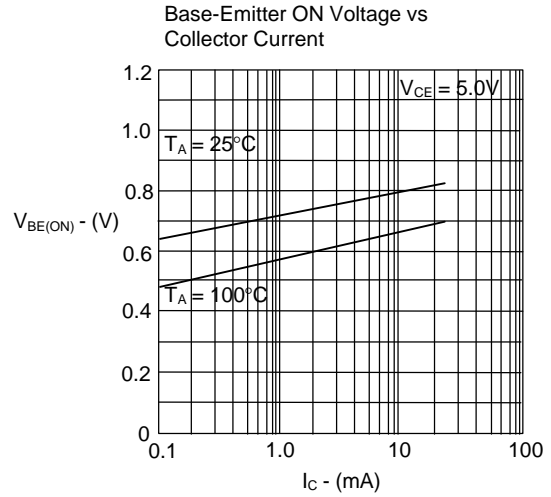
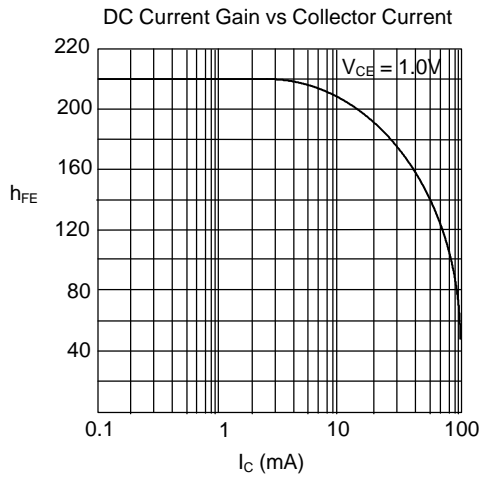
t _d	Delay Time	(V _{CC} =3.0Vdc, V _{BE} =0.5Vdc I _C =10mA, I _{B1} =1.0mA)	35	ns
t _r	Rise Time	(V _{CC} =3.0Vdc, I _C =10mA)	225	ns
t _s	Storage Time	(V _{CC} =3.0Vdc, I _C =10mA)	75	ns
t _f	Fall Time	(I _{B1} =I _{B2} =1.0mA)		ns

*Pulse Width ≤ 300μs, Duty Cycle ≤ 2.0%

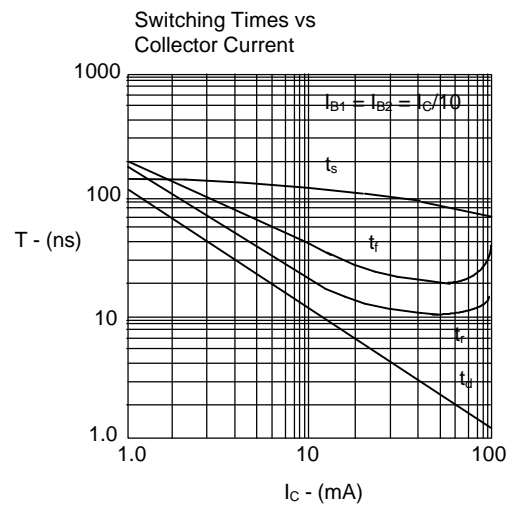
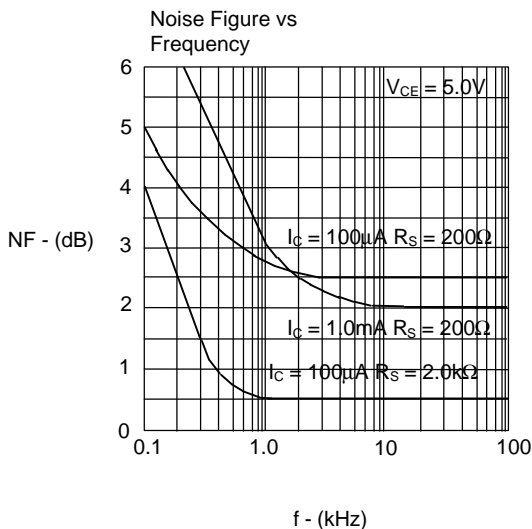
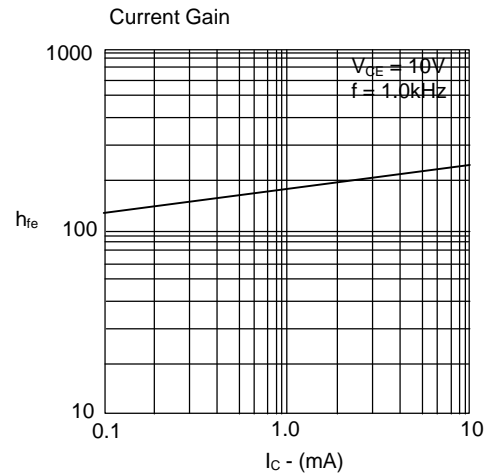
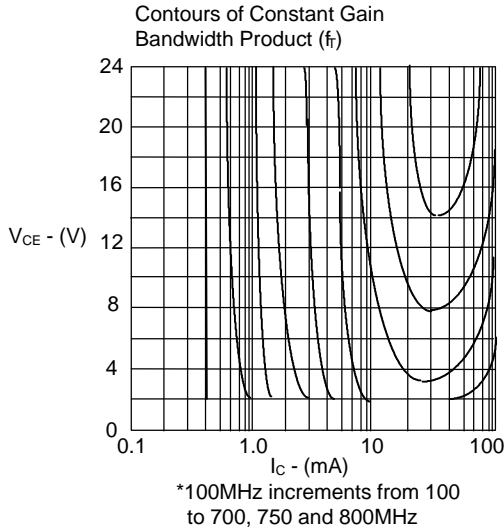
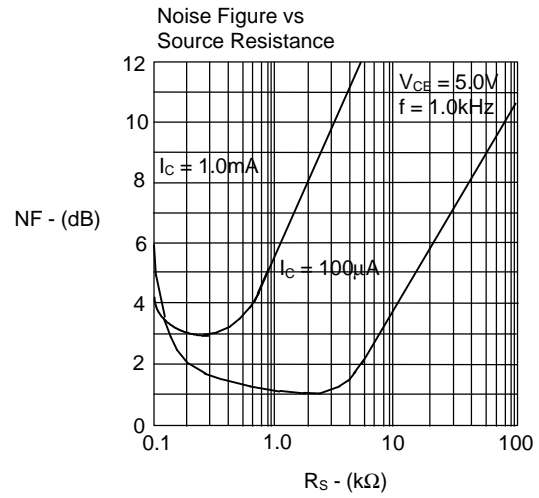
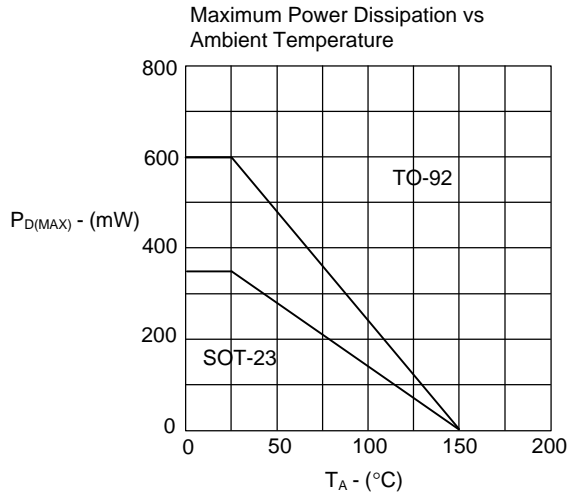
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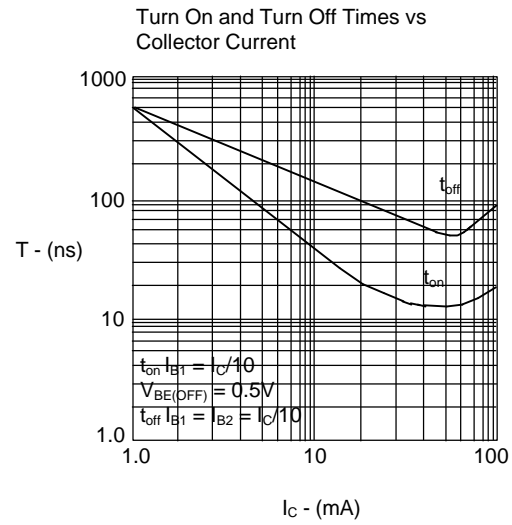
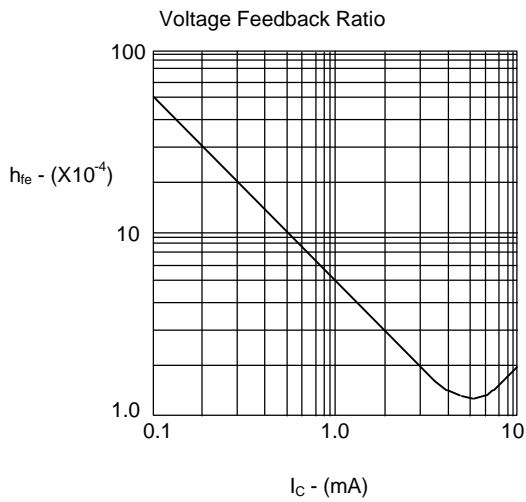
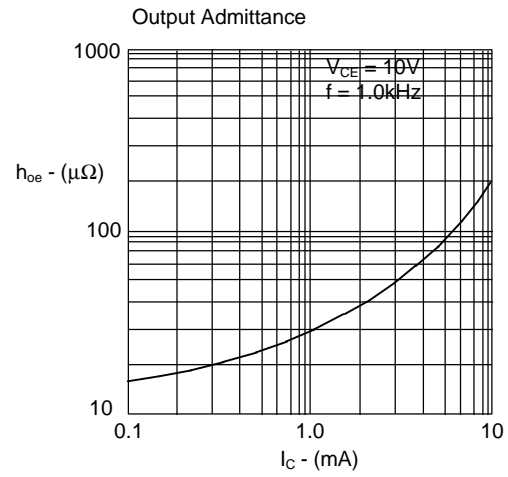
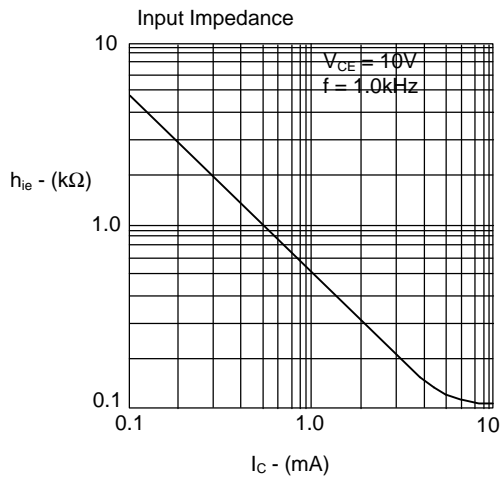
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	



2N3906



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Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing; 2Kpcs/AmmoBox
(Part Number)-BP	Bulk; 1Kpcs/Bag

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