



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
- € Marking: Type number

Electrical Characteristics @ 25°C Unless Otherwise Specified

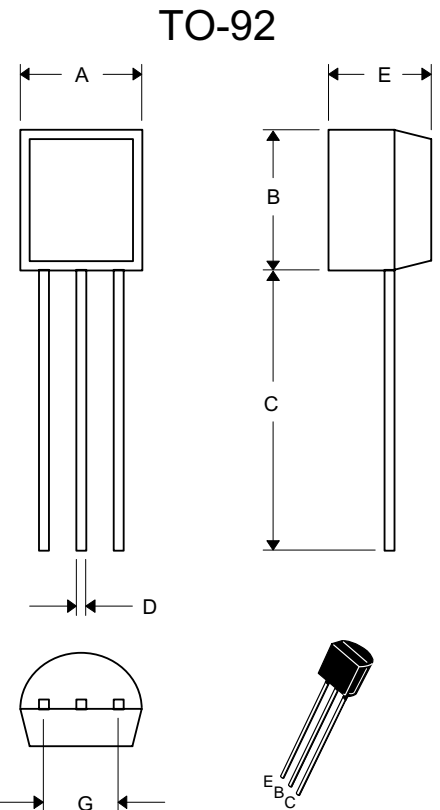
Symbol	Parameter	Min	Max	Units
OFF CHARACTERISTICS				
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage* (I _C =1.0mA, I _B =0)	40		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _C =10μA, I _E =0)	40		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =10μA, I _C =0)	5.0		Vdc
I _{BL}	Base Cutoff 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

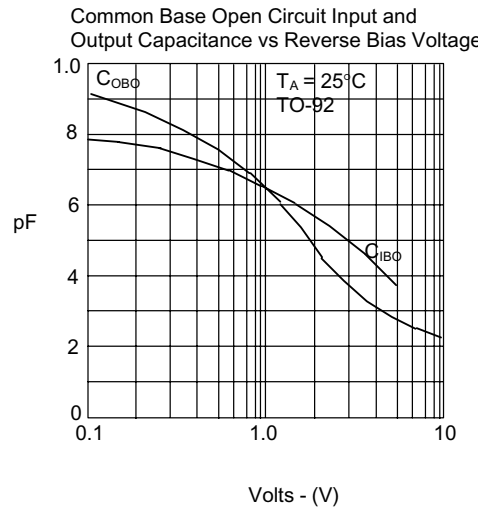
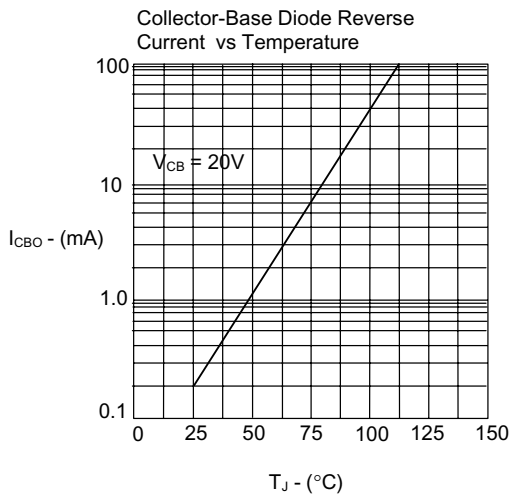
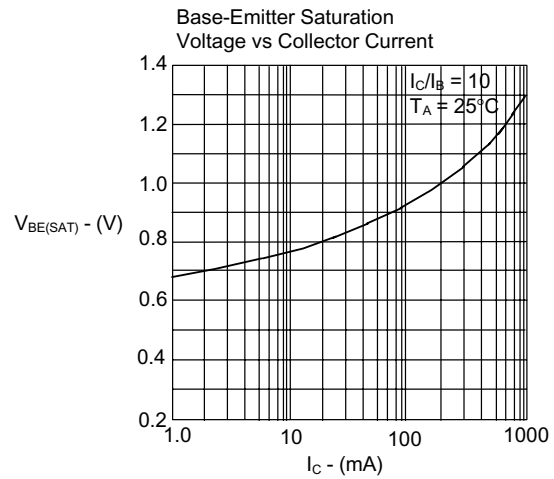
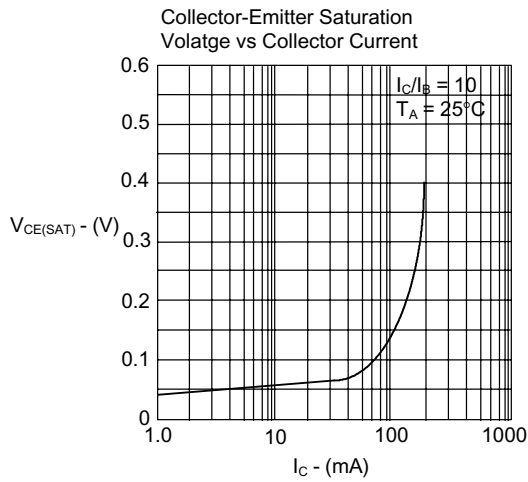
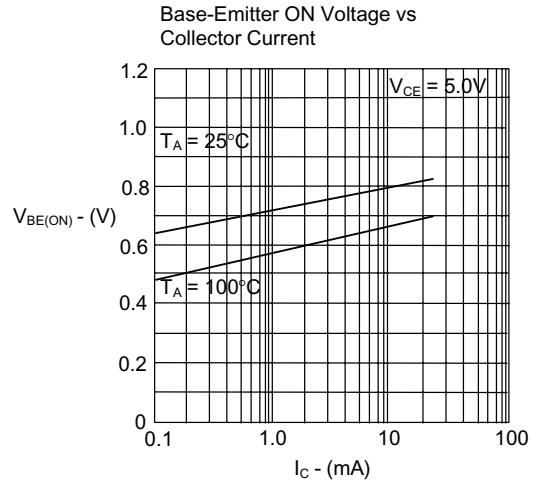
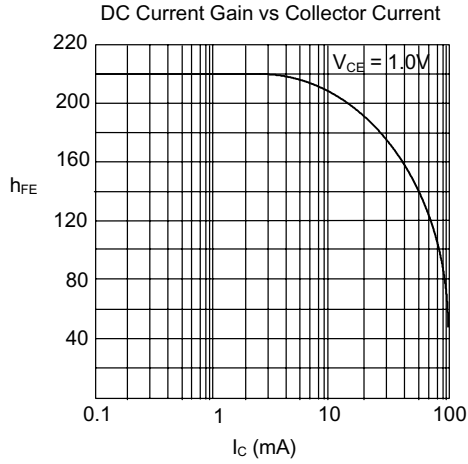
SMALL-SIGNAL CHARACTERISTICS				
f _T	Current Gain-Bandwidth Product (I _C =10mA, V _{CE} =20Vdc, f=100MHz)	250		MHz
C _{obo}	Output Capacitance (V _{CB} =5.0Vdc, I _E =0, f=100MHz)		4.5	pF
C _{ibo}	Input Capacitance (V _{BE} =0.5Vdc, I _C =0, f=100kHz)		10.0	pF
NF	Noise Figure (I _C =100μA, V _{CE} =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 I _{B1} =I _{B2} =1.0mA)	75	ns
t _s	Storage Time	(V _{CC} =3.0Vdc, I _C =10mA I _{B1} =I _{B2} =1.0mA)	225	ns
t _f	Fall Time	(V _{CC} =3.0Vdc, I _C =10mA I _{B1} =I _{B2} =1.0mA)	75	ns

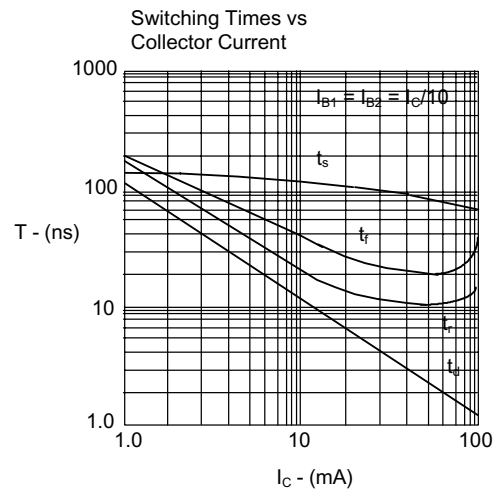
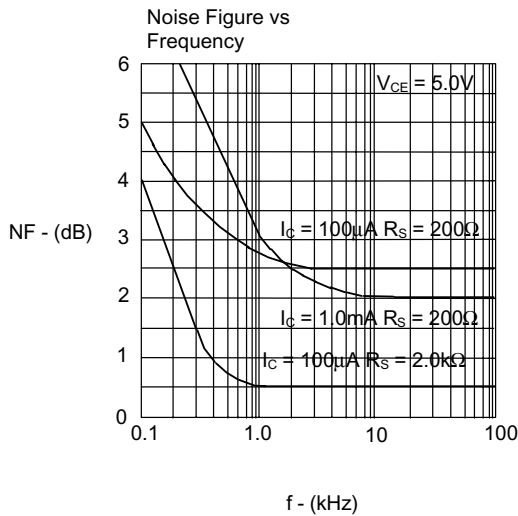
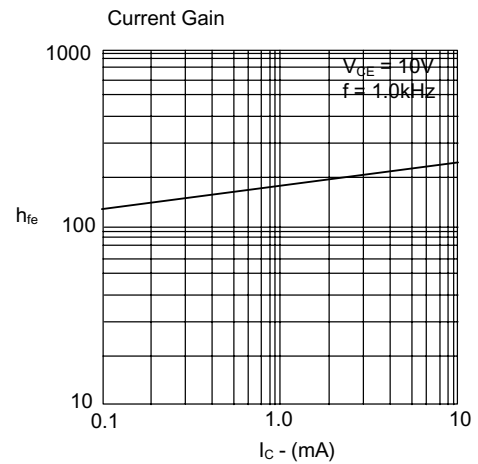
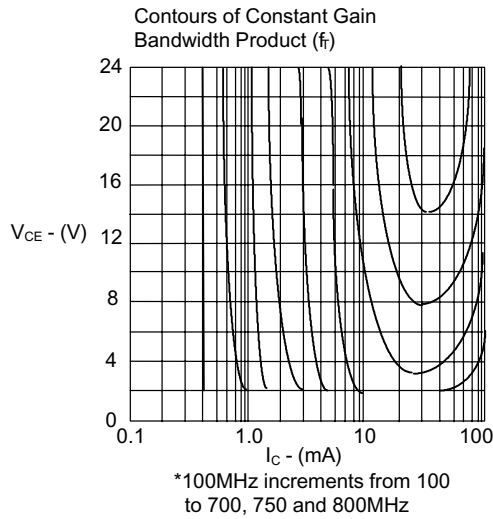
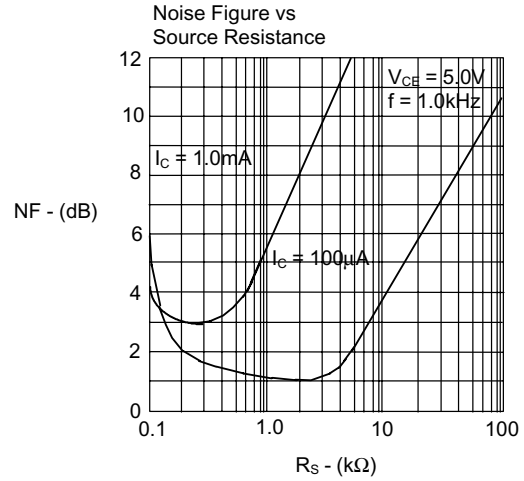
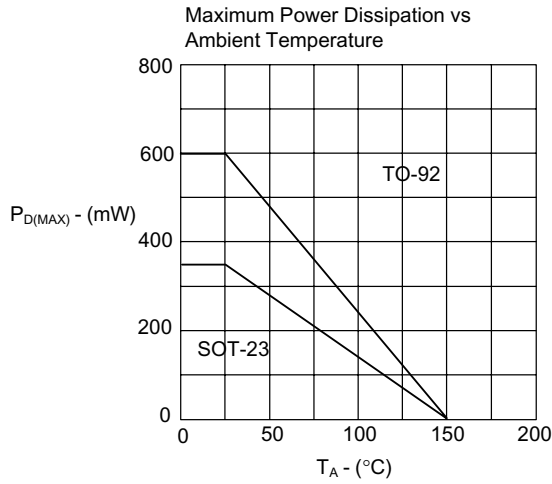
*Pulse Width ≤ 300μs, Duty Cycle ≤ 2.0%



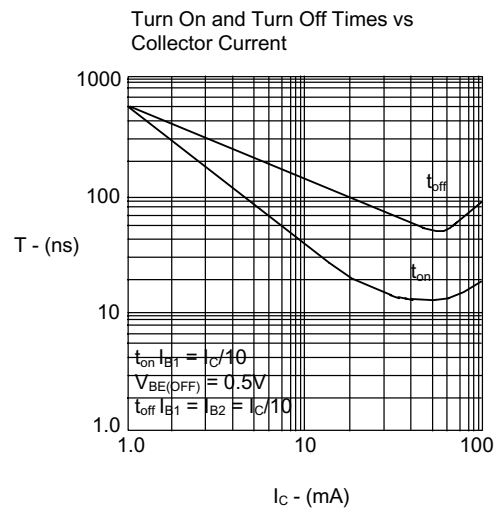
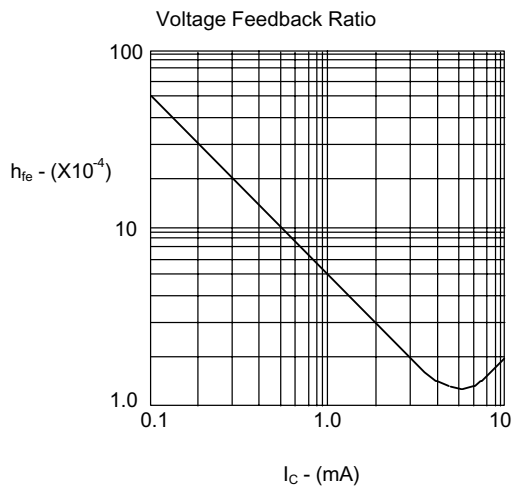
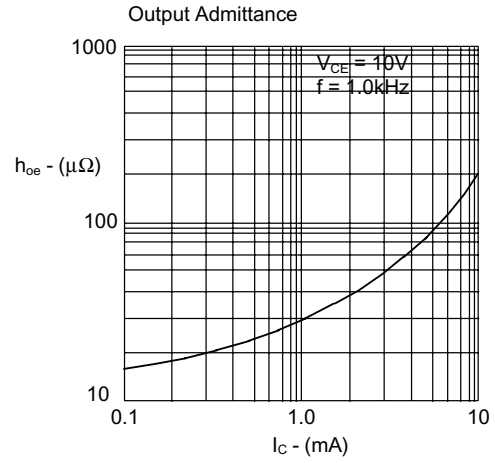
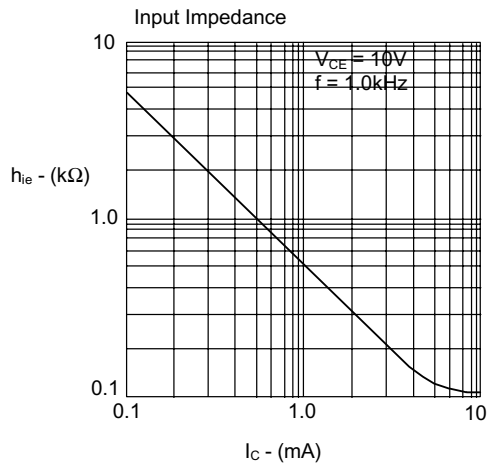
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	



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Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box
Part Number-BP	Bulk: 100Kpcs/Carton

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