



Micro Commercial Components

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

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 ($I_C=10\mu A$, $I_E=0$)	40		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=10\mu A$, $I_C=0$)	5.0		Vdc
I_{BL}	Base Cutoff Current ($V_{CE}=30V$, $V_{BE}=3.0V$)		50	nAdc
I_{CEX}	Collector Cutoff Current ($V_{CE}=30V$, $V_{BE}=3.0V$)		50	nAdc

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=0.1mA$, $V_{CE}=1.0V$) ($I_C=1.0mA$, $V_{CE}=1.0V$) ($I_C=10mA$, $V_{CE}=1.0V$) ($I_C=50mA$, $V_{CE}=1.0V$) ($I_C=100mA$, $V_{CE}=1.0V$)	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

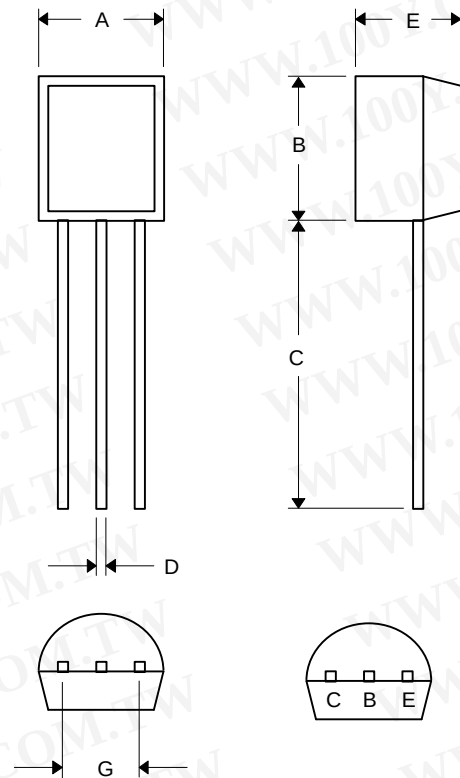
f_T	Current Gain-Bandwidth Product ($I_C=10mA$, $V_{CE}=20V$, $f=100MHz$)	250		MHz
C_{obo}	Output Capacitance ($V_{CB}=5.0V$, $I_E=0$, $f=100MHz$)		4.5	pF
C_{ibo}	Input Capacitance ($V_{BE}=0.5V$, $I_C=0$, $f=100kHz$)		10.0	pF
NF	Noise Figure ($I_C=100\mu A$, $V_{CE}=5.0V$, $R_S=1.0k\Omega$ $f=10Hz$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

SWITCHING CHARACTERISTICS

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

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

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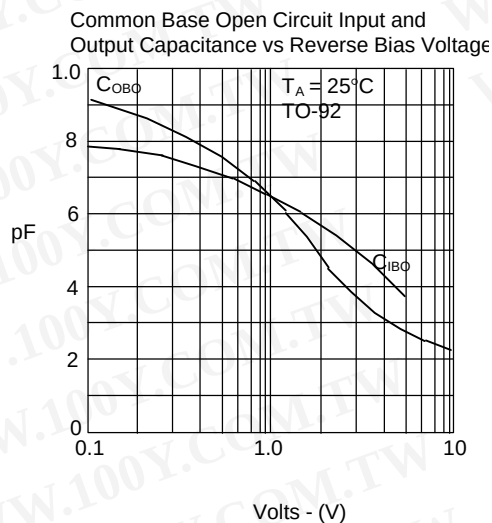
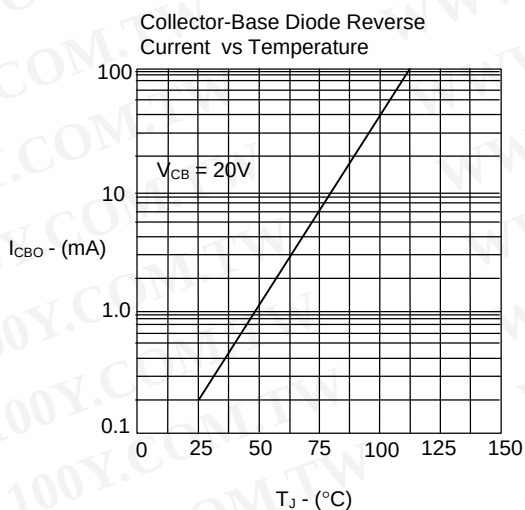
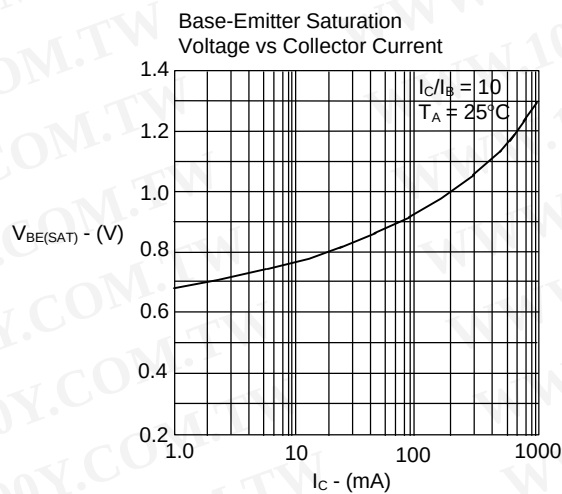
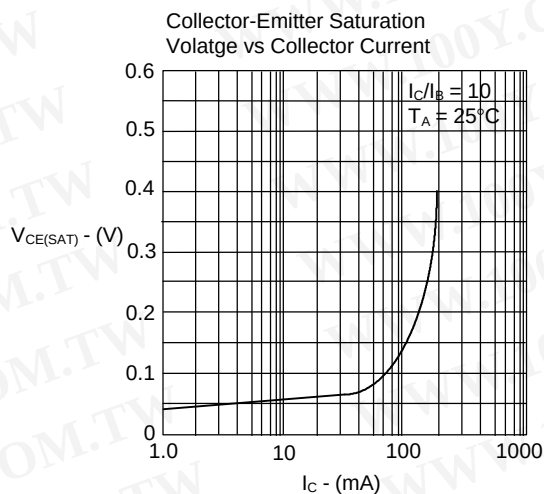
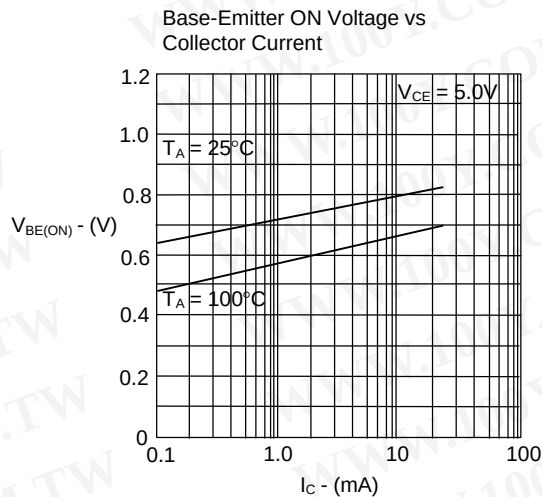
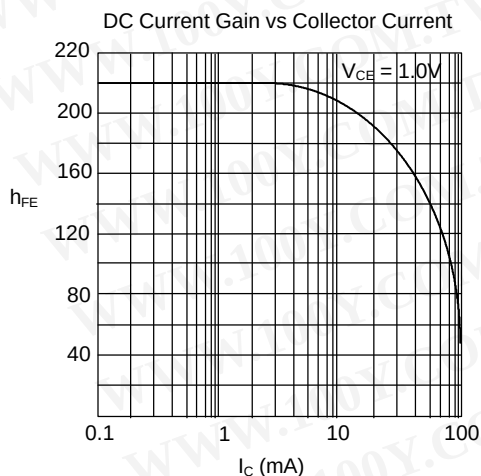
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

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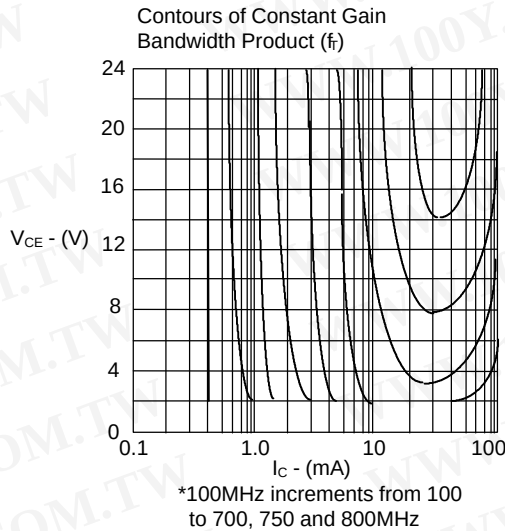
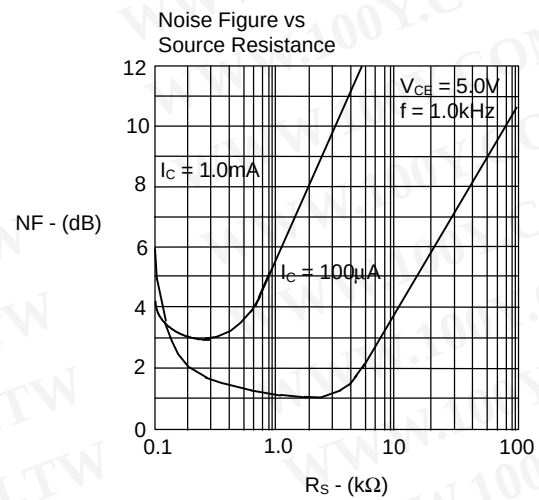
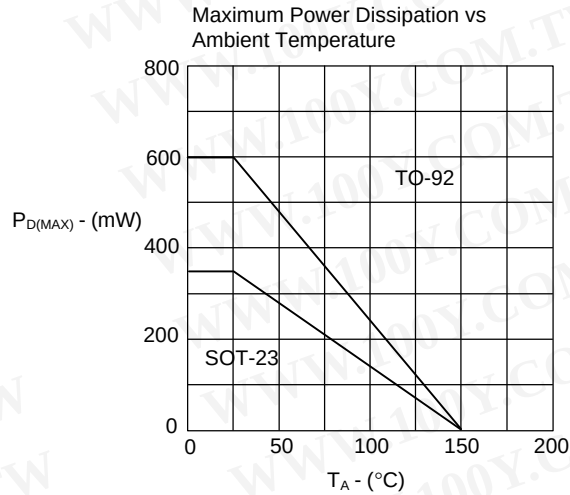
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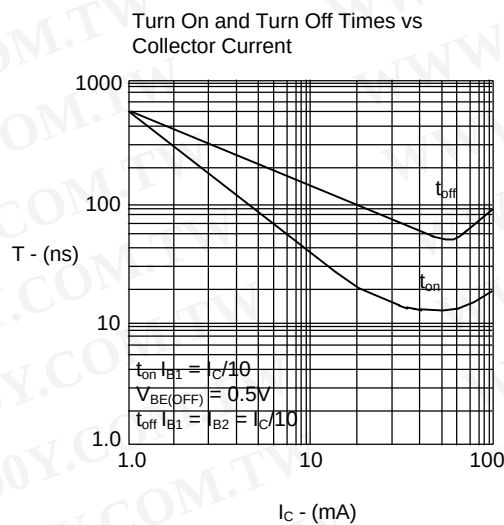
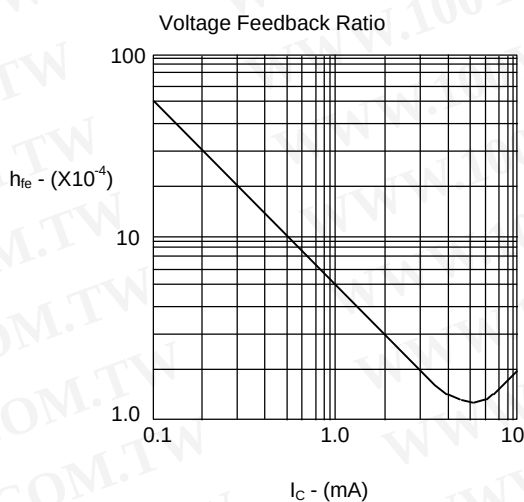
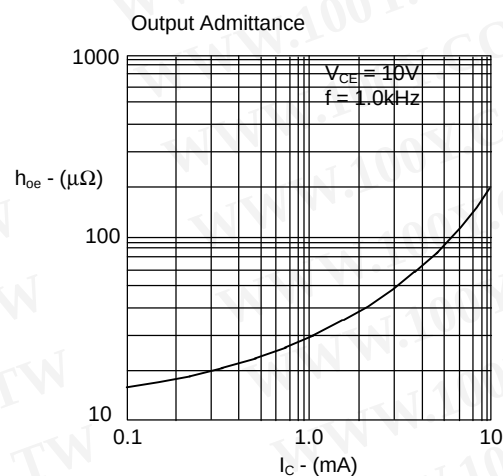
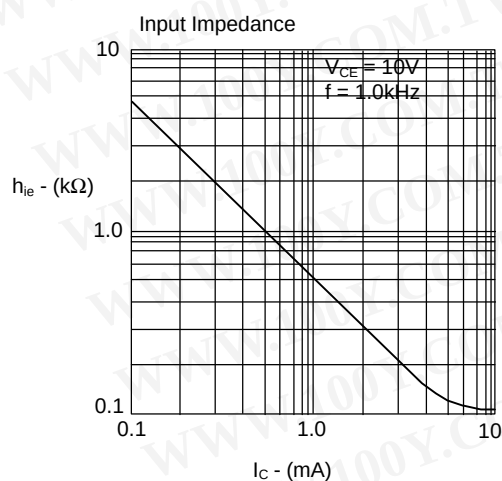


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Ordering Information

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

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