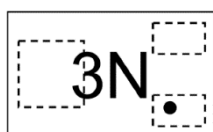


GP3906Y3 Transistor(PNP)

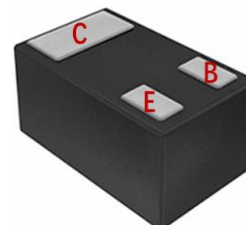
Feature

- Complementary to GP3904Y3
- Small Package

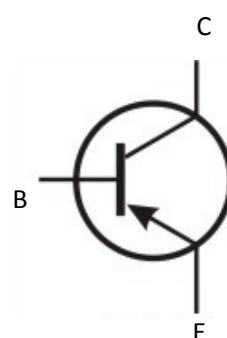
Marking: 3N



DFN1006-3L



Schematic diagram



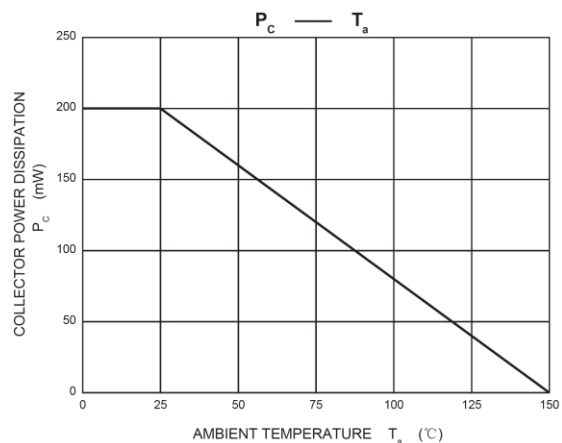
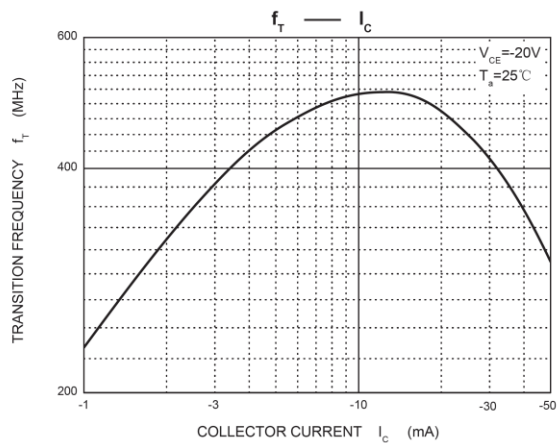
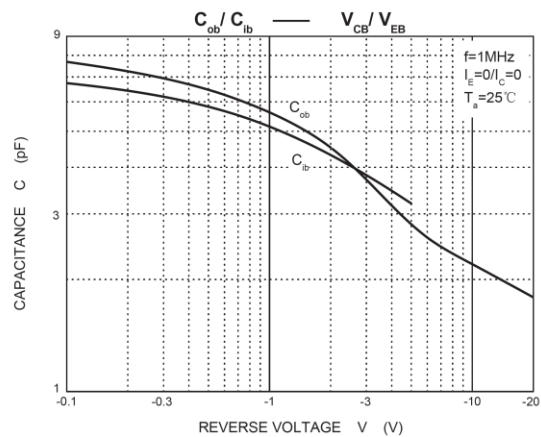
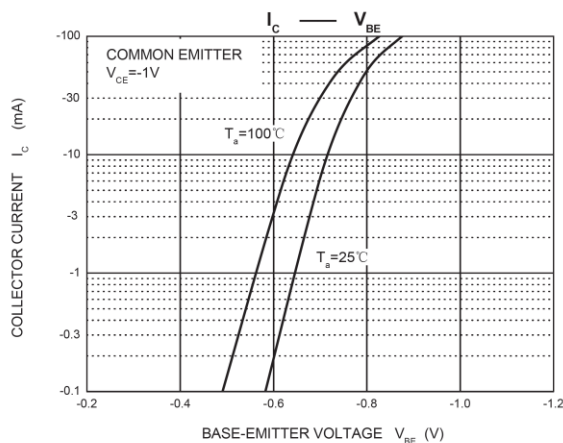
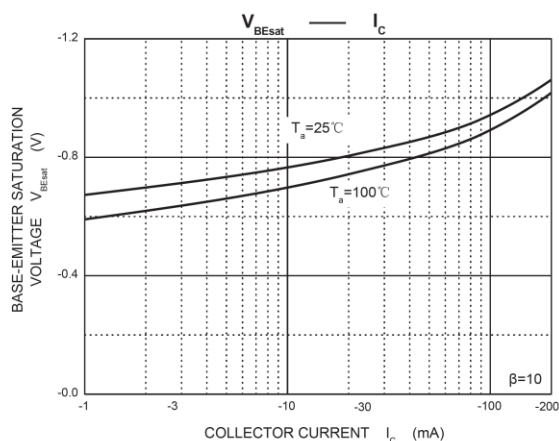
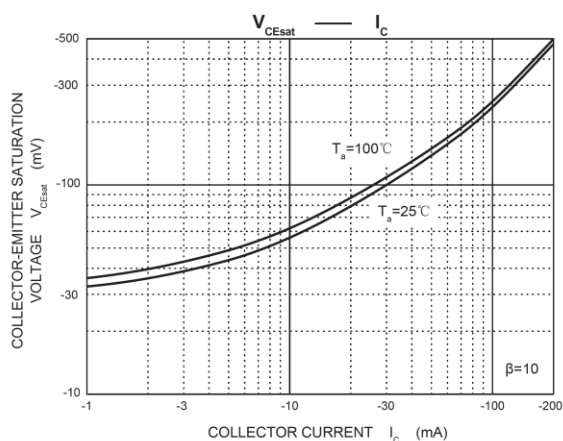
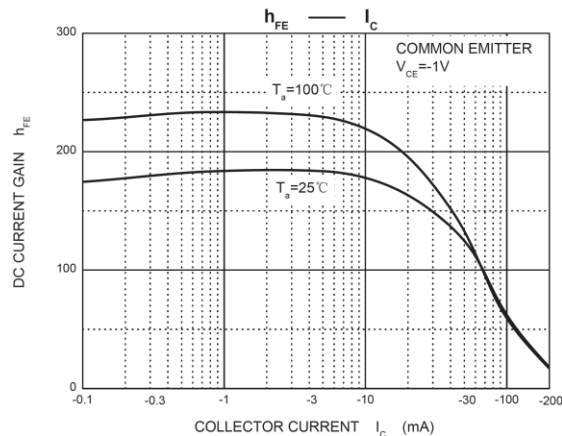
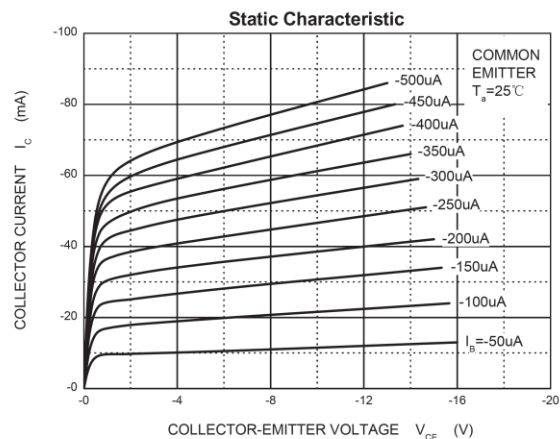
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

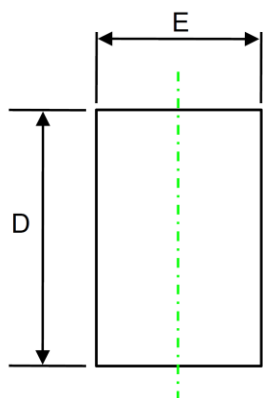
Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	-50	V
Collector-Emitter Voltage	V_{CEO}	-40	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current -Continuous	I_c	-0.2	A
Power Dissipation	P_d	0.1	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55~ +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise noted)

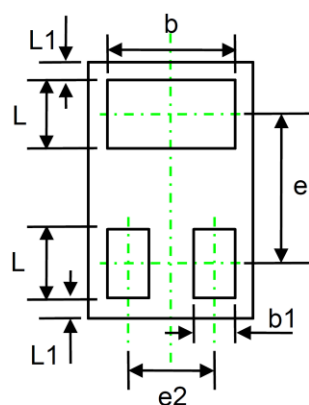
Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}$, $I_E=0$	-50		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}$, $I_B=0$	-40		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu\text{A}$, $I_C=0$	-5		V
Collector cut-off current	I_{CBO}	$V_{CB}=-50\text{V}$, $I_E=0$		-100	nA
Collector cut-off current	I_{CEX}	$V_{CE}=-30\text{V}$, $V_{EB(OFF)}=-3\text{V}$		-50	nA
Base cut-off current	I_{EBO}	$V_{EB}=-5\text{V}$, $I_C=0$		-100	nA
DC current gain	h_{FE1}	$V_{CE}=-1\text{V}$, $I_C=-10\text{mA}$	100	300	
	h_{FE2}	$V_{CE}=-1\text{V}$, $I_C=-50\text{mA}$	60		
	h_{FE3}	$V_{CE}=-2\text{V}$, $I_C=-100\text{mA}$	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-50\text{mA}$, $I_B=-5\text{mA}$		-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-50\text{mA}$, $I_B=-5\text{mA}$		-0.95	V
Transition frequency	f_T	$V_{CE}=-20\text{V}$, $I_C=-10\text{mA}$, $f=100\text{MHz}$	300		MHZ
Delay Time	t_d	$V_{CC}=-3.0\text{V}$, $I_C=-10\text{mA}$, $V_{BE(off)}=0.5\text{V}$, $I_{B1}=-1.0\text{mA}$		35	ns
Rise Time	t_r			35	ns
Storage Time	t_s	$V_{CC}=-3.0\text{V}$, $I_C=-10\text{mA}$, $I_{B1}=I_{B2}=-1.0\text{mA}$		225	ns
Fall Time	t_f			75	ns

Typical Characteristics

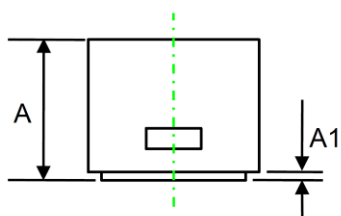


DFN1006-3L Package Information


TOP VIEW
[顶视图]



BOTTOM VIEW
[底视图]



SIDE VIEW
[侧视图]

	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	0.43	0.45	0.47
D	0.95	1.00	1.05
E	0.55	0.60	0.65
b	0.45	0.50	0.55
e	-	0.65	-
e2	-	0.35	-
L	0.20	0.25	0.30
L1	0.05 REF.		
b1	0.10	0.15	0.20