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G2N3906

PNP EPITAXIAL PLANAR TRANSISTOR

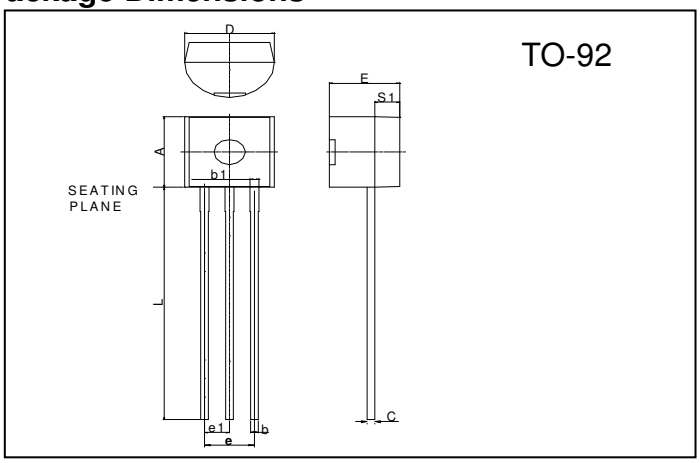
Description

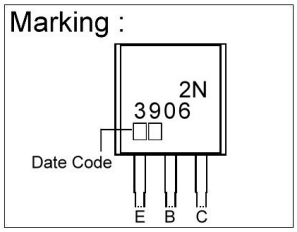
The G2N3906 is designed for general purpose switching and amplifier applications.

Features

*Pb-free package are available
*Collector-Emitter Voltage: VCEO=-40V
*Collect Dissipation: Pc (max) =625mW
*Complementary to G2N3904

Package Dimensions





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S_1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b_1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

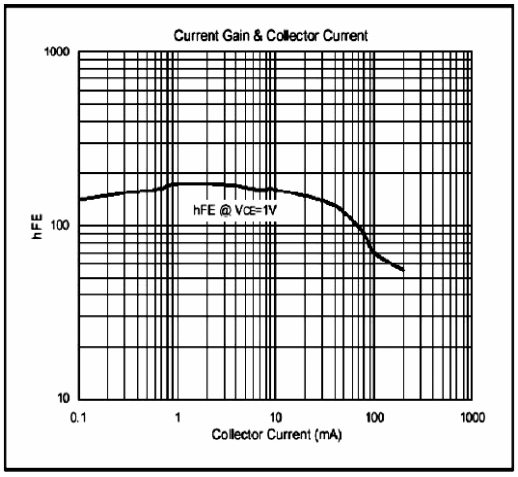
Absolute Maximum Ratings (Ta = 25℃,unless otherwise specified)

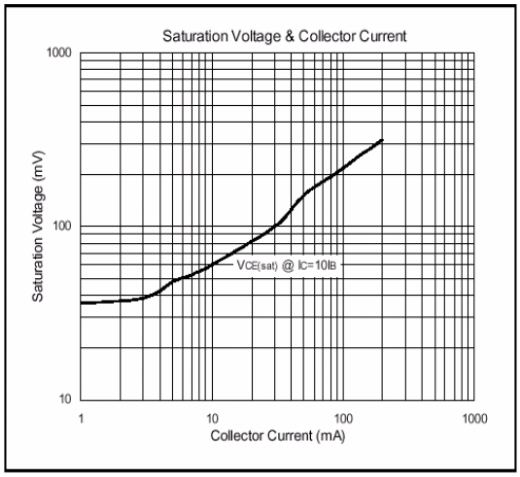
Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-40	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collect Current(DC)	I_C	-200	mA
Junction Temperature	Tj	+150	℃
Storage Temperature Range	T_{STG}	-55 ~ +150	℃
Total Power Dissipation	P_D	625	mW

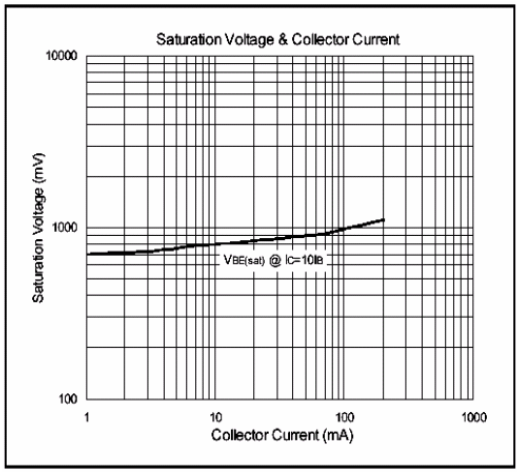
Electrical Characteristics(Ta = 25℃,unless otherwise specified)

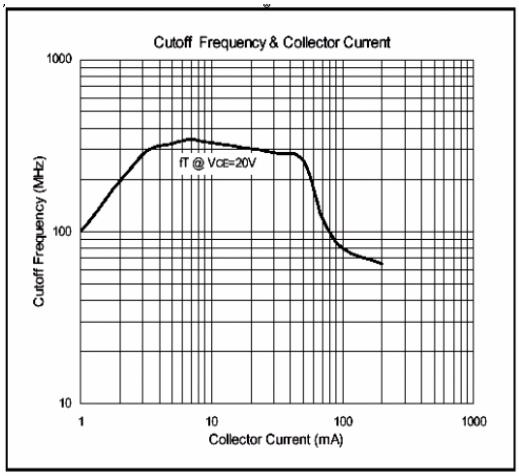
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-40	-	-	V	IC=-10uA , IE=0
BVCEO	-40	-	-	V	IC=-1mA , IB=0
BVEBO	-5	-	-	V	IE=-10uA, IC=0
ICEX	-	-	-50	nA	VCE=-30V, VEB=-3V
IEBO	-	-	-50	nA	VEB=-3V
VCE(sat)1	-	-	-0.25	V	IC=-10mA, IB=-1mA
VCE(sat)2	-	-	-0.4	V	IC=-50mA, IB=-5mA
VBE(sat)1	-0.65	-	-0.85	V	IC=-10mA, IB=-1mA
VBE(sat)2	-	-	-0.95	V	IC=-50mA, IB=-5mA
hFE1	60	-	-		VCE=-1V, IC=-0.1mA
hFE2	80	-	-		VCE=-1V, IC=-1mA
hFE3	100	-	300		VCE=-1V, IC=-10mA
hFE4	60	-	-		VCE=-1V, IC=-50mA
hFE5	30	-	-		VCE=-1V, IC=-100mA
fT	250	-	-	MHz	VCE=-20V, IE=-10mA, f=100MHz
Cob	-	-	4.5	pF	VCB=-10V, f=100KHz
Cib	-	-	10	pF	VEB=-0.5V, f=100KHz
td	-	-	35	ns	VCC=-3V, VBE(OFF)=-0.5V, IC=-10mA, IB1=-1mA
tr	-	-	35	ns	VCC=-3V, VBE(OFF)=-0.5V, IC=-10mA, IB1=-1mA
tstg	-	-	225	ns	VCC=-3V, IC=-10mA, IB1=-IB2=-1mA
tf	-	-	75	ns	VCC=-3V, IC=-10mA, IB1=-IB2=-1mA

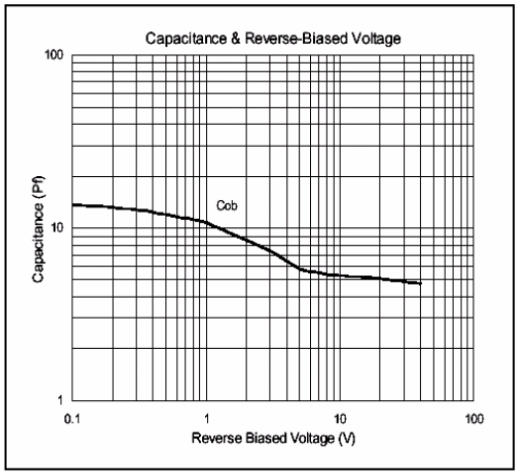
Characteristics Curve

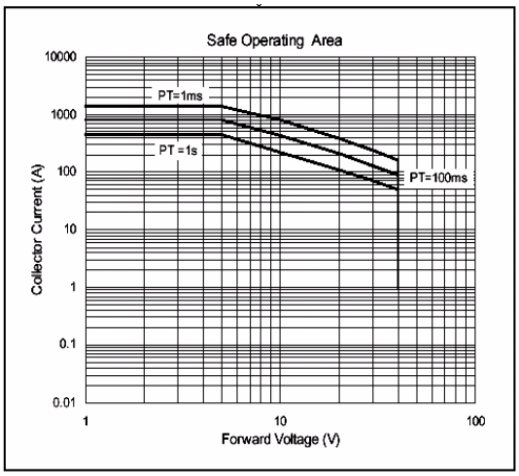












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