

GL3904

NPN EPITAXIAL PLANAR TRANSISTOR

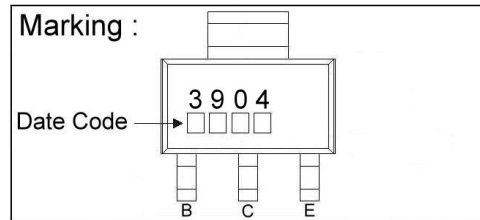
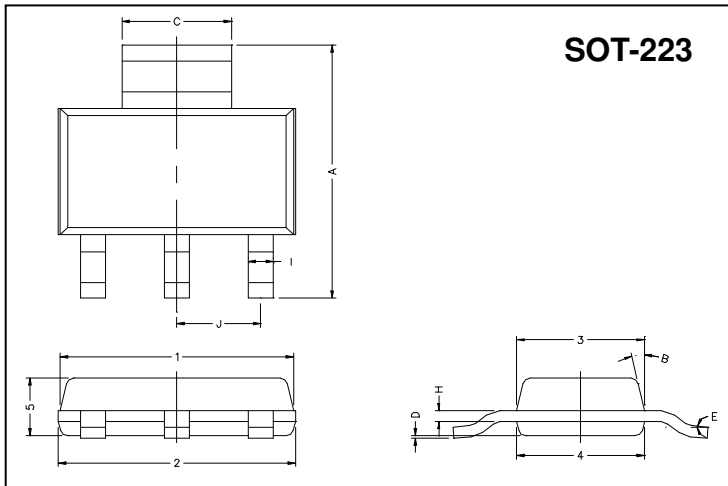
Description

The GL3904 is designed for general purpose switching and amplifier applications.

Features

- Collector-Emitter Voltage: VCEO=40V
- Complementary to GL3906

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13° TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

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

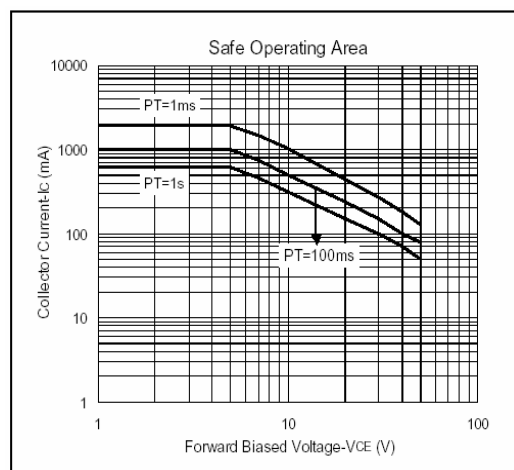
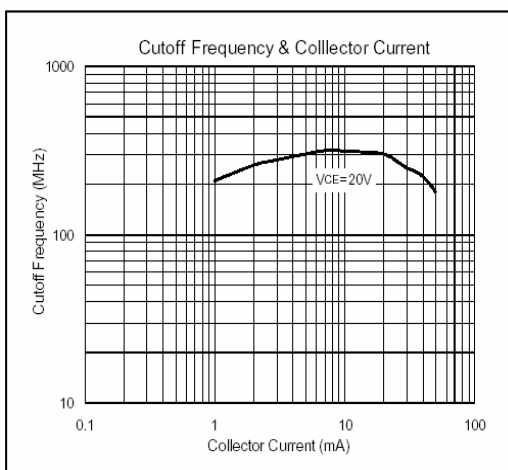
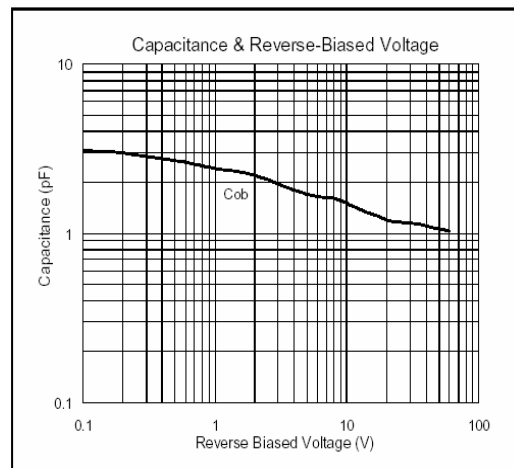
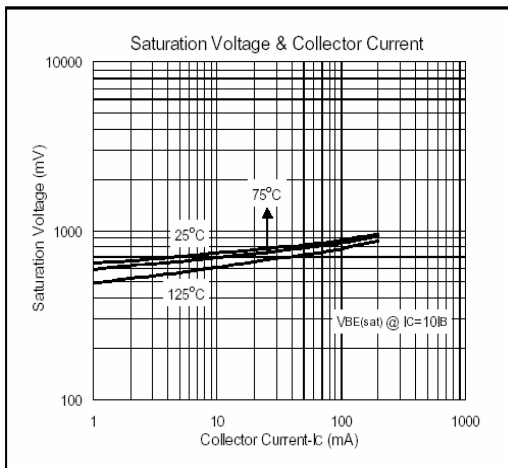
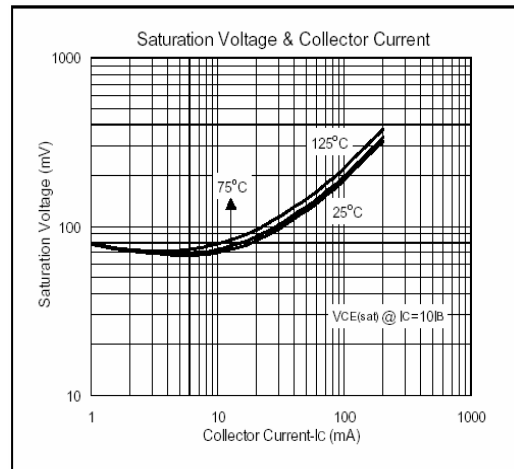
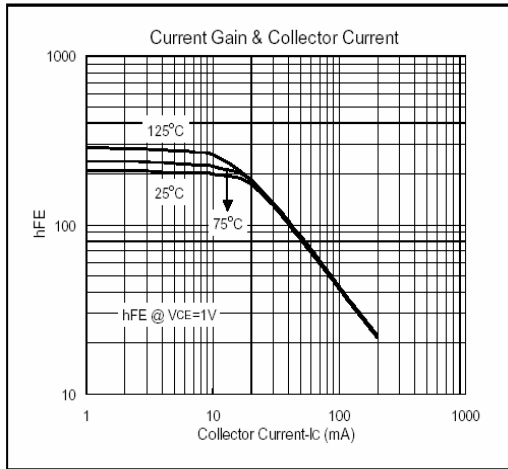
Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V _{CBO}	60	V
Collector to Emitter Voltage	V _{CEO}	40	V
Emitter to Base Voltage	V _{EBO}	6	V
Collect Current(DC)	I _c	200	mA
Junction Temperature	T _j	+150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C
Total Power Dissipation	P _D	1.5	W

Electrical Characteristics (Ta = 25°C, unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CBO}	60	-	-	V	I _C =10uA, I _E =0
BV _{CEO}	40	-	-	V	I _C =1mA, I _B =0
BV _{EBO}	6	-	-	V	I _E =10uA, I _C =0
I _C EX	-	-	50	nA	V _{CE} =30V, V _{BE} =3V
*V _{CE} (sat)1	-	-	200	mV	I _C =10mA, I _B =1mA
*V _{CE} (sat)2	-	-	300	mV	I _C =50mA, I _B =5mA
*V _{BE} (sat)1	650	-	850	mV	I _C =10mA, I _B =1mA
*V _{BE} (sat)2	-	-	950	mV	I _C =50mA, I _B =5mA
*h _{FE} 1	40	-	-		V _{CE} =1V, I _C =0.1mA
*h _{FE} 2	70	-	-		V _{CE} =1V, I _C =1mA
*h _{FE} 3	100	-	300		V _{CE} =1V, I _C =10mA
*h _{FE} 4	60	-	-		V _{CE} =1V, I _C =50mA
*h _{FE} 5	30	-	-		V _{CE} =1V, I _C =100mA
f _T	300	-	-	MHZ	V _{CE} =20V, I _C =10mA, f=100MHZ
C _{ob}	-	-	4	pF	V _{CB} =5V, I _E =0, f=1MHZ

* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Characteristics Curve



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