

G8551

PNP EPITAXIAL TRANSISTOR

Description

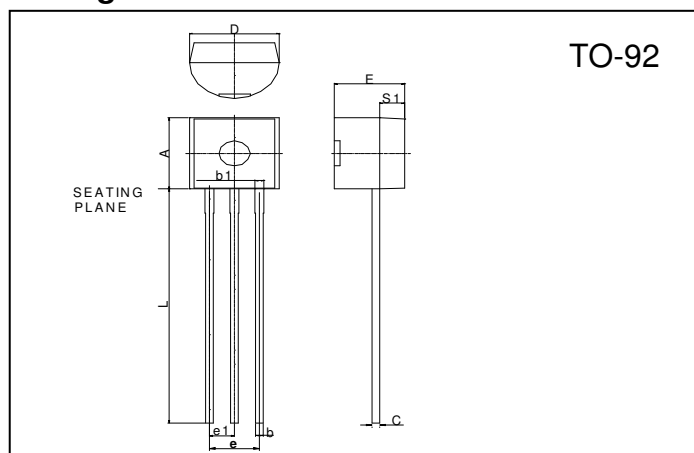
The G8551 is designed for use in 2W output amplifier of portable radios in class B push-pull operation.

Features

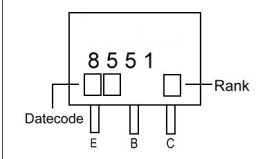
*High Collector current (I_C : 1.5A)

*Complementary to G8051

Package Dimensions



Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.45	4.7	D	4.44	4.7
S1	1.02	-	E	3.30	3.81
b	0.36	0.51	L	12.70	-
b1	0.36	0.76	e1	1.150	1.390
C	0.36	0.51	e	2.42	2.66

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$, unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	V_{CBO}	-40	V
Collector to Emitter Voltage	V_{CEO}	-25	V
Emitter to Base Voltage	V_{EBO}	-6	V
Collect Current	I_C	-1.5	A
Base Current	I_B	-0.5	A
Junction Temperature	T_j	+150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 ~ +150	$^\circ\text{C}$
Total Power Dissipation	P_D	1	W

Electrical Characteristics ($T_a = 25^\circ\text{C}$, unless otherwise specified)

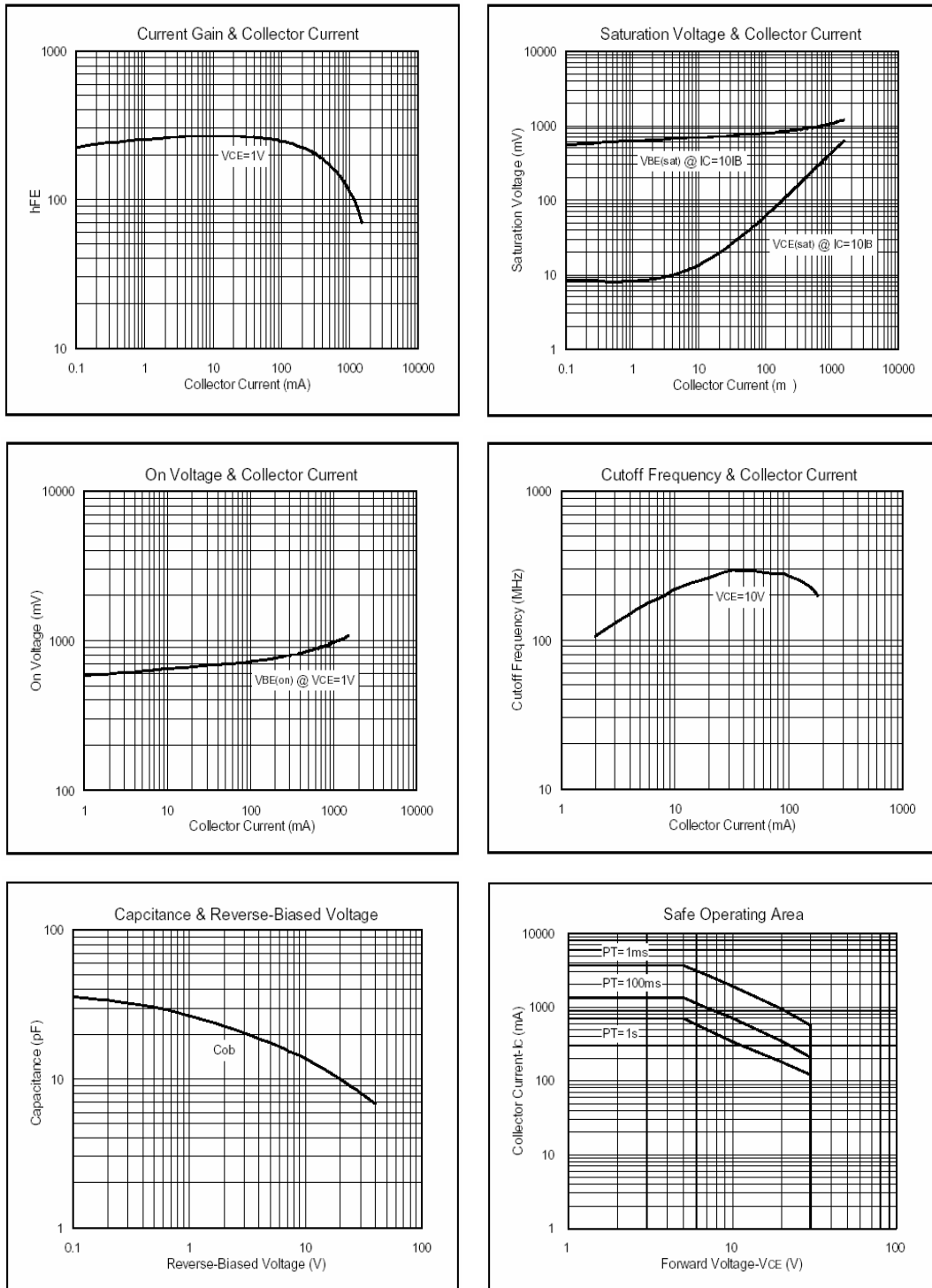
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CBO}	-40	-	-	V	$I_C = -100\mu\text{A}$
V_{CEO}	-25	-	-	V	$I_C = -2\text{mA}$
V_{EBO}	-6	-	-	V	$I_E = -100\mu\text{A}$
I_{CBO}	-	-	-100	nA	$V_{CB} = -35\text{V}$
I_{EBO}	-	-	-100	nA	$V_{BE} = -6\text{V}$
* $V_{CE(sat)}$	-	-	-0.5	V	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$
* $V_{BE(sat)}$	-	-	-1.2	V	$I_C = -800\text{mA}$, $I_B = -80\text{mA}$
* $V_{BE(on)}$	-	-	-1	V	$V_{CE} = -1\text{V}$, $I_C = -10\text{mA}$
* h_{FE1}	45	-	-		$V_{CE} = -1\text{V}$, $I_C = -5\text{mA}$
* h_{FE2}	120	-	500		$V_{CE} = -1\text{V}$, $I_C = -100\text{mA}$
* h_{FE3}	40	-	-		$V_{CE} = -1\text{V}$, $I_C = -800\text{mA}$
f_T	100	-	-	MHz	$V_{CE} = -10\text{V}$, $I_C = -50\text{mA}$, $f = 100\text{MHz}$
Cob	-	9	-	pF	$V_{CB} = -10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$

* Pulse Test: Pulse Width $\leq 380\mu\text{s}$, Duty Cycle $\leq 2\%$

Classification Of h_{FE1}

Rank	C	D	E
Range	120 ~ 200	160 ~ 320	250 ~ 500

Characteristics Curve



Important Notice:

- All rights are reserved. Reproduction in whole or in part is prohibited without the prior written approval of GTM.
- GTM reserves the right to make changes to its products without notice.
- GTM semiconductor products are not warranted to be suitable for use in life-support Applications, or systems.
- GTM assumes no liability for any consequence of customer product design, infringement of patents, or application assistance.

Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
TEL : 86-21-5895-7671 ~ 4 FAX : 86-21-38950165