

GI8050

NPN EPITAXIAL TRANSISTOR

Description

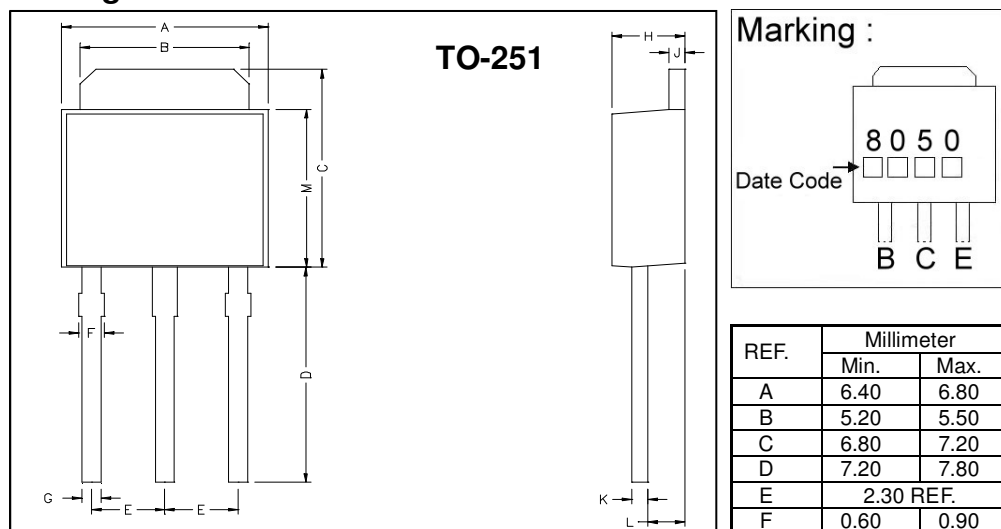
The GI8050 is designed for use in 2W output amplifier of portable radios in class B push-pull operation.

Features

*High Collector current (I_C : 1.5A)

*Complementary to GI8550

Package Dimensions



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
Collector Current	I_C	1.5	A
Base Current	I_B	0.5	A
Junction Temperature	T_j	+150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^\circ\text{C}$
Total Power Dissipation	P_D	1.25	W

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified)

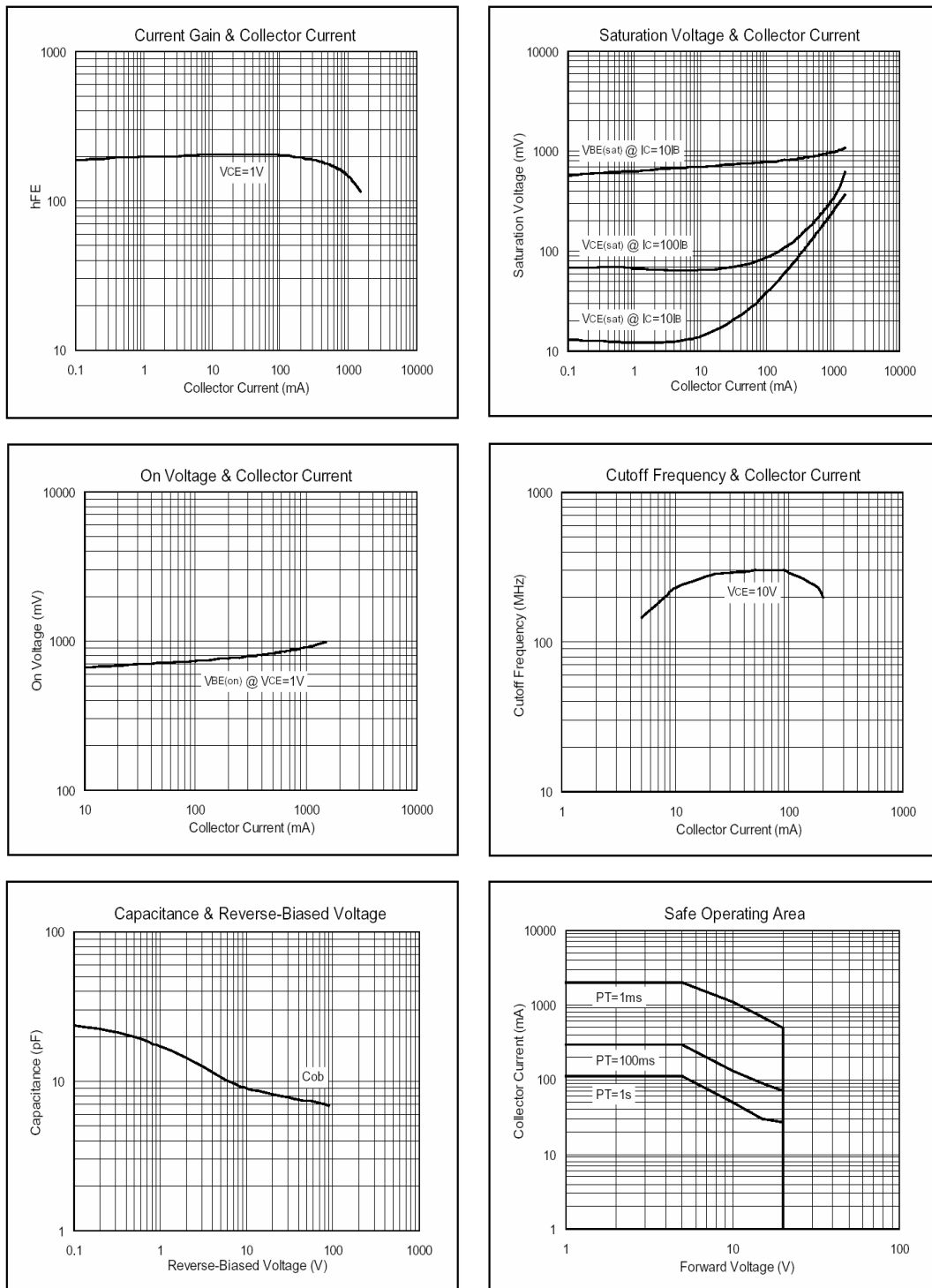
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V_{CBO}	40	-	-	V	$I_C = 100\mu\text{A}$
V_{CEO}	25	-	-	V	$I_C = 2\text{mA}$
V_{EBO}	6	-	-	V	$I_E = 100\mu\text{A}$
I_{CBO}	-	-	100	nA	$V_{CB} = 35\text{V}$
I_{EBO}	-	-	100	nA	$V_{BE} = 6\text{V}$
* $V_{CE(sat)}$	-	-	0.5	V	$I_C = 800\text{mA}$, $I_B = 80\text{mA}$
* $V_{BE(sat)}$	-	-	1.2	V	$I_C = 800\text{mA}$, $I_B = 80\text{mA}$
* $V_{BE(on)}$	-	-	1.0	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	$V_{CE} = 10\text{V}$, $I_C = 50\text{mA}$, $f = 100\text{MHz}$
C_{ob}	-	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_{FE2}

Rank	C	D	E
Range	120 ~ 200	160 ~ 300	250 ~ 500

Characteristics Curve



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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