

GJ8050

NPN EPITAXIAL TRANSISTOR

Description

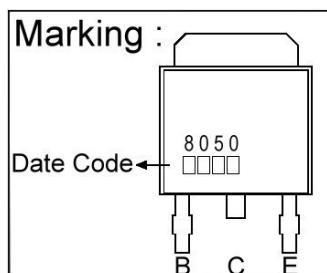
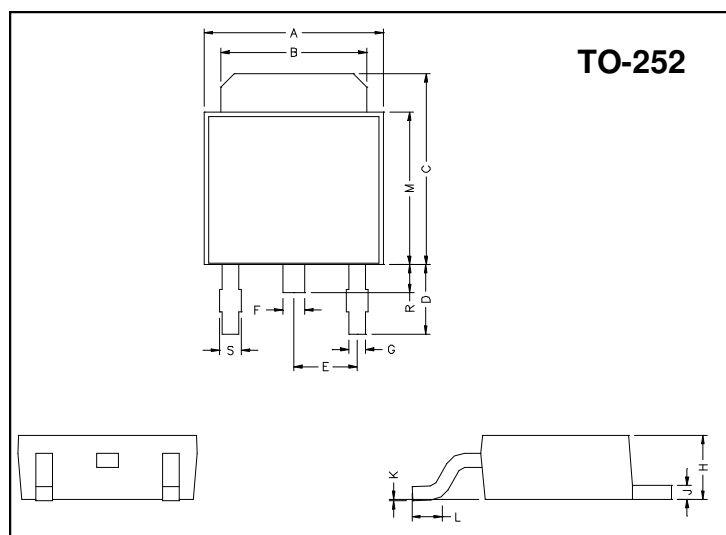
The GJ8050 is designed for use in 2W output amplifier of portable radios in class B push-pull operation.

Features

*High Collector current (IC: 1.5A)

*Complementary to GJ8550

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	2.40	3.00	K	0	0.15
E	2.30 REF.		L	0.90	1.50
F	0.70	0.90	M	5.40	5.80
S	0.60	0.90	R	0.80	1.20

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

Parameter	Symbol	Ratings	Unit
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	25	V
Emitter to Base Voltage	VEBO	6	V
Collector Current	IC	1.5	A
Base Current	IB	0.5	A
Junction Temperature	Tj	+150	°C
Storage Temperature	TSTG	-55 ~ +150	°C
Total Power Dissipation	PD	1.25	W

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

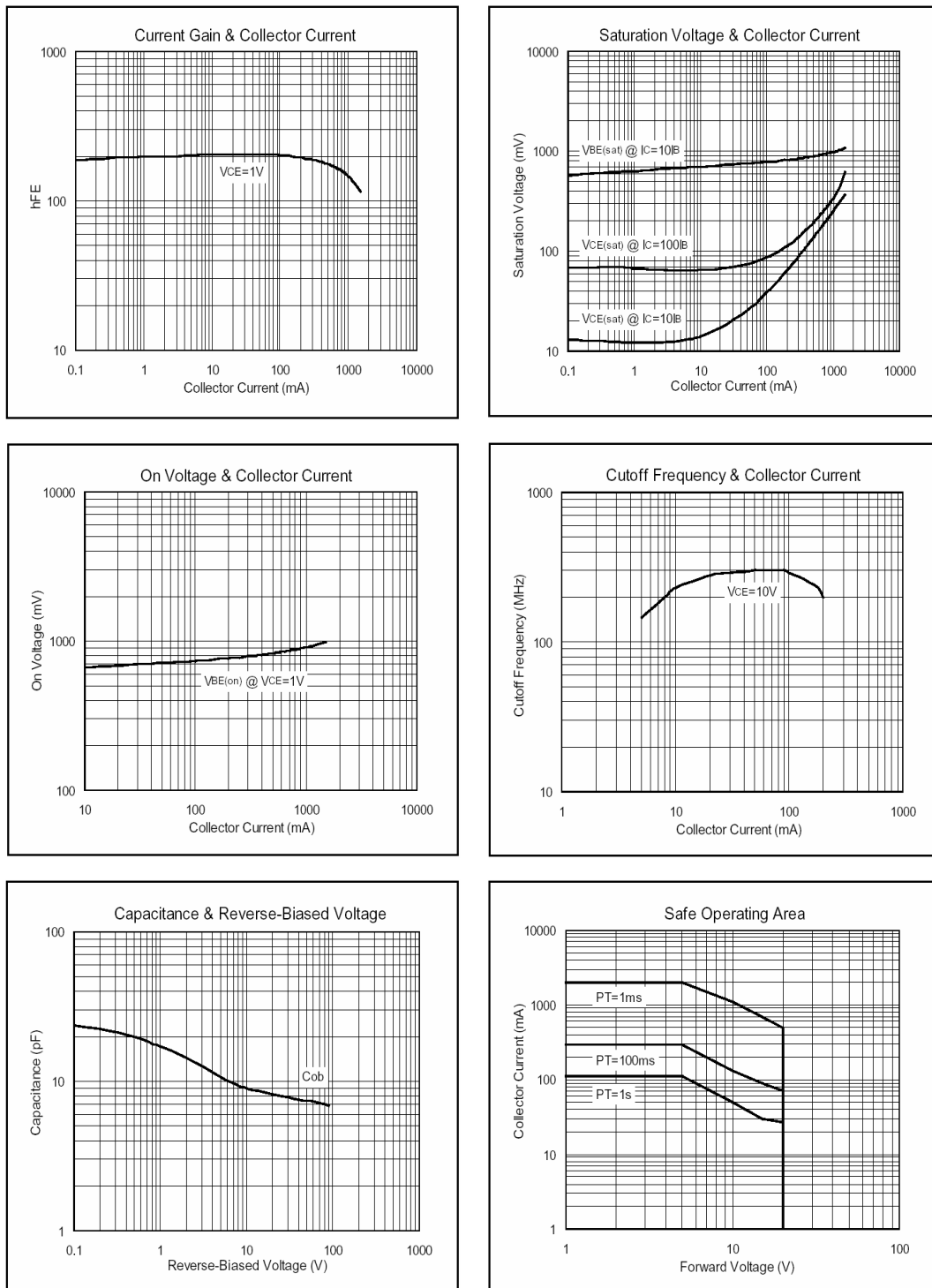
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA
BVCEO	25	-	-	V	IC=2mA
BVEBO	6	-	-	V	IE=100uA
ICBO	-	-	100	nA	VCB=35V
IEBO	-	-	100	nA	VBE=6V
*VCE(sat)	-	-	0.5	V	IC=800mA, IB=80mA
*VBE(sat)	-	-	1.2	V	IC=800mA, IB=80mA
*VBE(on)	-	-	1.0	V	VCE=1V, IC=10mA
*hFE1	45	-	-		VCE=1V, IC=5mA
*hFE2	120	-	500		VCE=1V, IC=100mA
*hFE3	40	-	-		VCE=1V, IC=800mA
fT	100	-	-	MHz	VCE=10V, IC=50mA, f=100MHz
Cob	-	9	-	pF	VCB=10V, IE=0, f=1MHz

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

Classification Of hFE2

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

Characteristics Curve



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