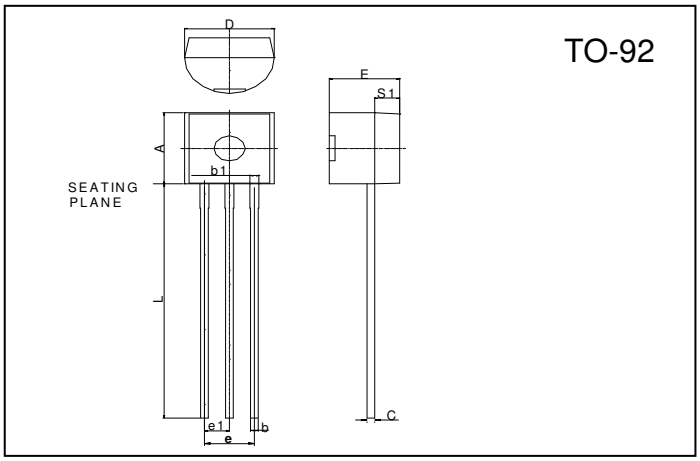
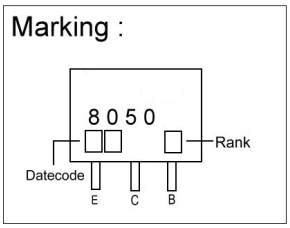
G8050 NPN EPITAXIAL TRANSISTOR

Description
The G8050 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 G8550

Package Dimensions





REF.	Millimeter Min.	Millimeter Max.	REF.	Millimeter Min.	Millimeter 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}	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	Tj	+150	
Storage Temperature Range	T_{STG}	-55 ~ +150	
Total Power Dissipation	P_D	1	W

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

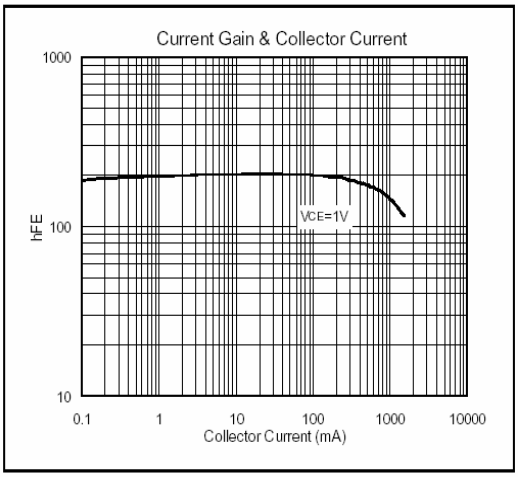
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV_{CBO}	40	-	-	V	I_C=100uA
BV_{CEO}	25	-	-	V	I_C=2mA
BV_{EBO}	6	-	-	V	I_E=100uA
I_{CBO}	-	-	100	nA	V_{CB}=35V
I_{EBO}	-	-	100	nA	V_{BE}=6V
*$V_{CE(sat)}$	-	-	0.5	V	I_C=800mA, I_B=80mA
*$V_{BE(sat)}$	-	-	1.2	V	I_C=800mA, I_B=80mA
*$V_{BE(on)}$	-	-	1	V	V_{CE}=1V, I_C=10mA
*$h_{FE}1$	45	-	-		V_{CE}=1V, I_C=5mA
*$h_{FE}2$	120	-	500		V_{CE}=1V, I_C=100mA
*$h_{FE}3$	40	-	-		V_{CE}=1V, I_C=800mA
fT	100	-	-	MHz	V_{CE}=10V, I_C=50mA, f=100MHz
Cob	-	9	-	pF	V_{CB}=10V, I_E=0, f=1MHz

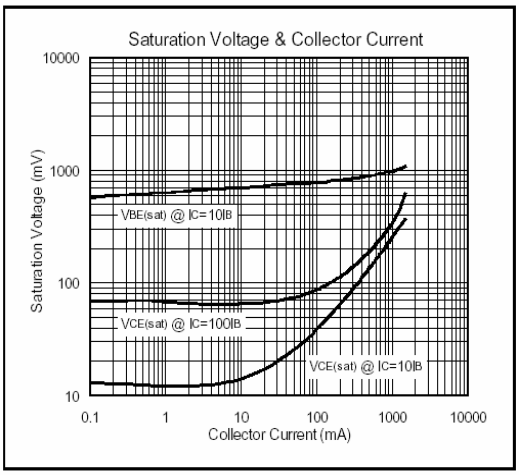
*** Pulse Test: Pulse Width 380µs, Duty Cycle 2%**

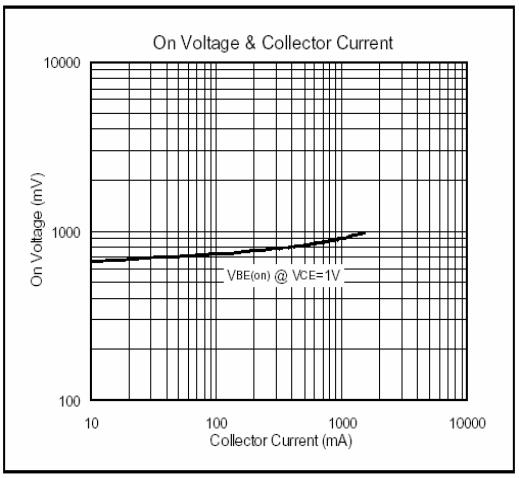
Classification Of $h_{FE}2$

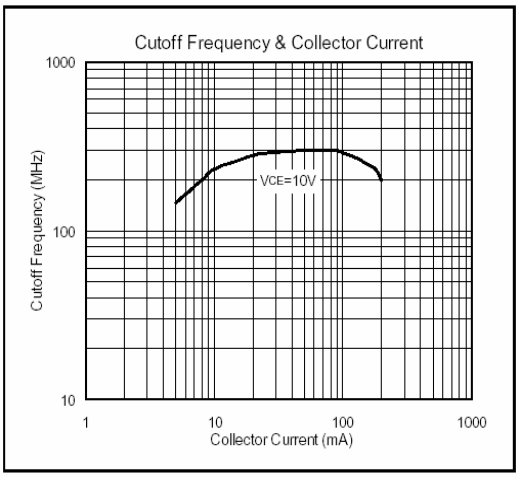
Rank	C	D	E
Range	120 ~ 200	160 ~ 320	250 ~ 500

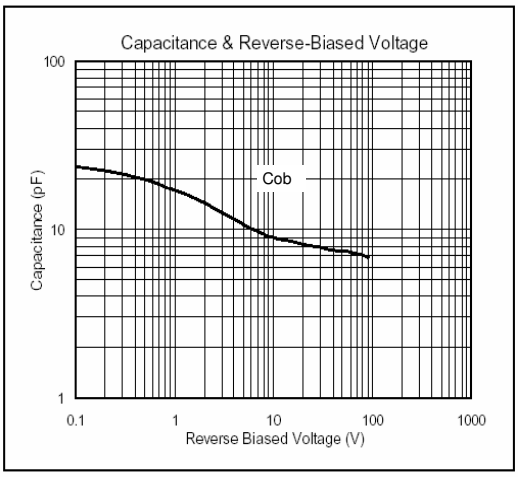
Characteristics Curve











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