

G8051S NPN EPITAXIAL TRANSISTOR

LOW VOLTAGE HIGH CURRENT SMALL SIGNAL NPN TRANSISTOR

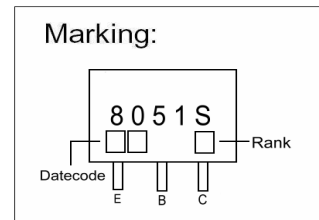
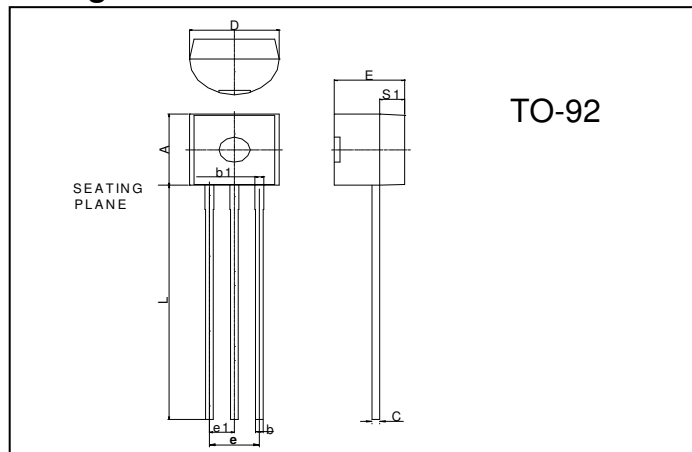
Description

The G8051S is a low voltage high current small signal NPN transistor, designed for Class B push-pull audio amplifier for portable radio and general purpose applications.

Features

- *Collector current up to 700mA
- *Collector –Emitter voltage up to 20V
- *Complementary to G8551S

Package Dimensions



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 (Ta = 25°C, unless otherwise specified)

Parameter		Ratings	Unit
Collector to Base Voltage	VCBO	25	V
Collector to Emitter Voltage	VCEO	20	V
Emitter to Base Voltage	VEBO	5	V
Collect Current(DC)	Ic	0.7	A
Junction Temperature	Tj	+150	°C
Storage Temperature Range	TSTG	-55 ~ +150	°C
Total Power Dissipation	PD	625	mW

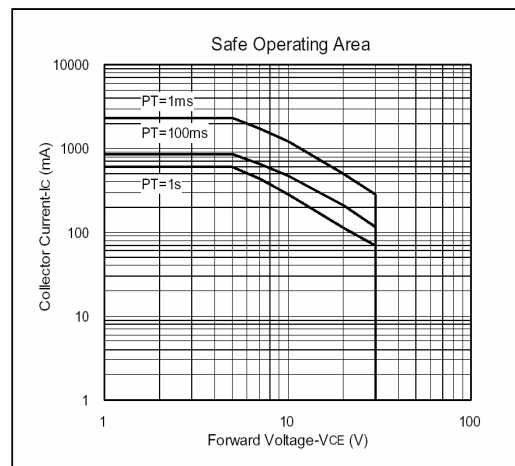
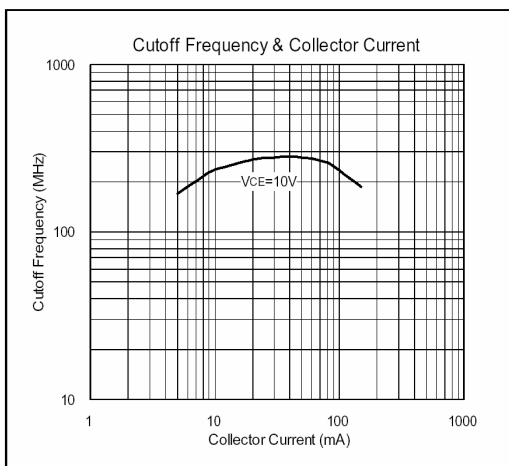
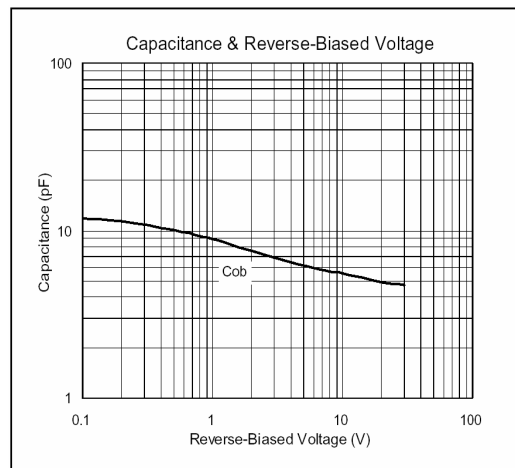
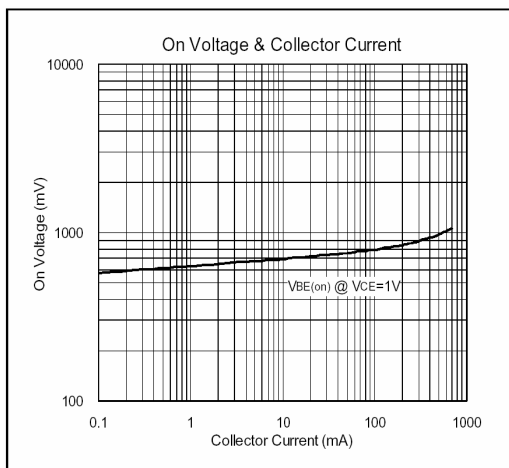
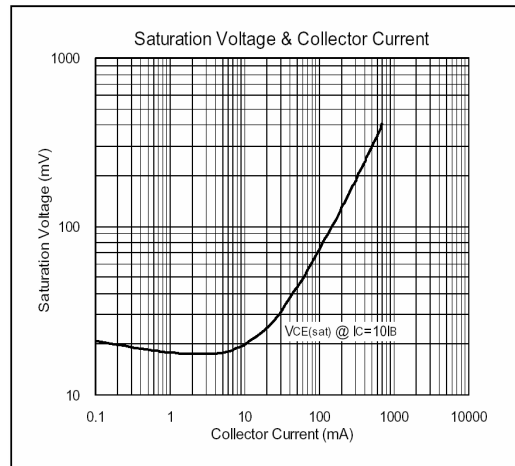
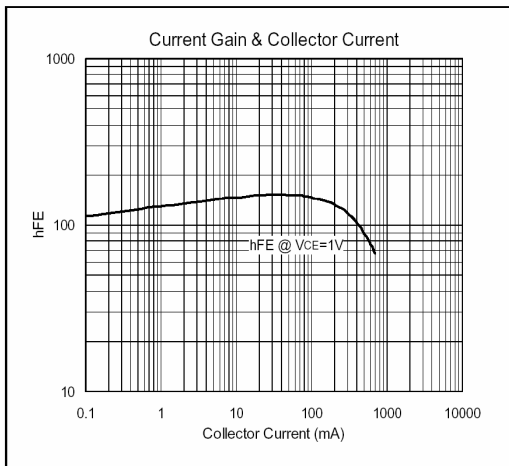
Electrical Characteristics (Ta = 25°C, unless otherwise specified)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	25	-	-	V	I _C =10uA, I _E =0
BV _{CE0}	20	-	-	V	I _C =1mA, I _B =0
BV _{EB0}	5	-	-	V	I _E =10uA, I _C =0
I _{CBO}	-	-	1	uA	V _{CB} =20V, I _E =0
I _{EBO}	-	-	100	nA	V _{BE} =6V, I _C =0
h _{FE1}	100	-	400		V _{CE} =1V, I _C =150mA
h _{FE2}	-	100	-		V _{CE} =1V, I _C =150mA
V _{CE(sat)}	-	-	0.5	V	I _C =500mA, I _B =50mA
V _{BE(on)}	-	-	1	V	V _{CE} =1V, I _C =150mA
f _T	150	-	-	MHz	V _{CE} =10V, I _C =20mA, f=100MHz
C _{ob}	-	10	-	pF	V _{CB} =10V, I _E =0A, f=1MHz

Classification Of hFE1

Rank	C	D	E
Range	100-180	160-300	250-400

Characteristics Curve



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