

# GSC1384

## NPN EPITAXIAL PLANAR TRANSISTOR

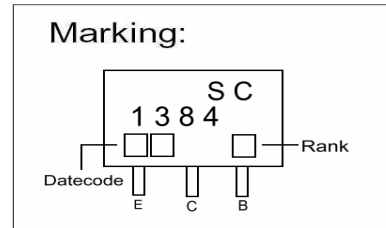
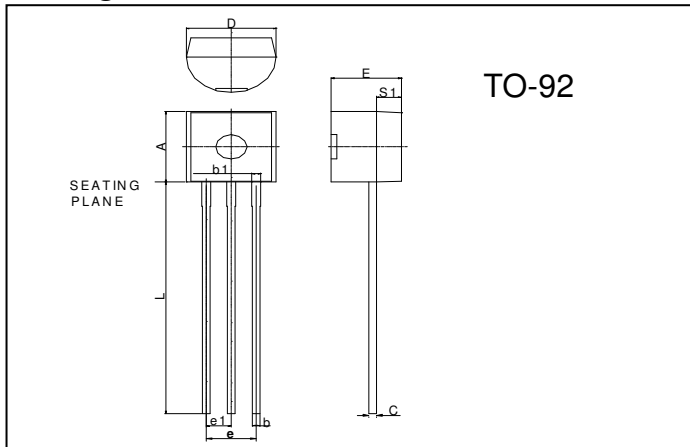
### Description

The GSC1384 is designed for power amplifier and driver.

### Features

- \*Low collector to emitter saturation voltage  $V_{CE(sat)}$ .
- \*Complementary pair with GSA684

### 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	60	V
Collector to Emitter Voltage	VCEO	50	V
Emitter to Base Voltage	VEBO	5	V
Collect Current(DC)	IC	1	A
Collect Current*(Pulse)	ICP	1.5	A
Junction Temperature	Tj	+150	°C
Storage Temperature Range	TSTG	-55 ~ +150	°C
Total Power Dissipation	PD	1	W

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

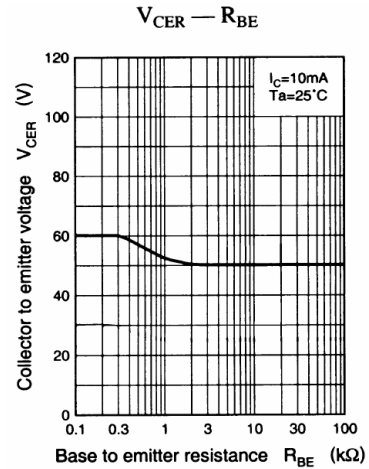
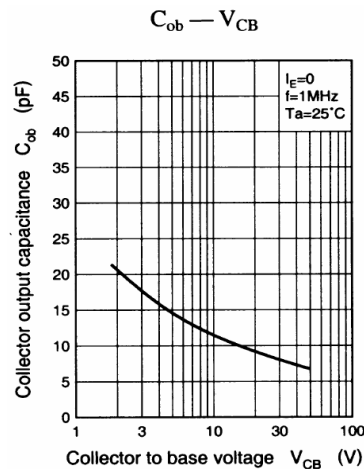
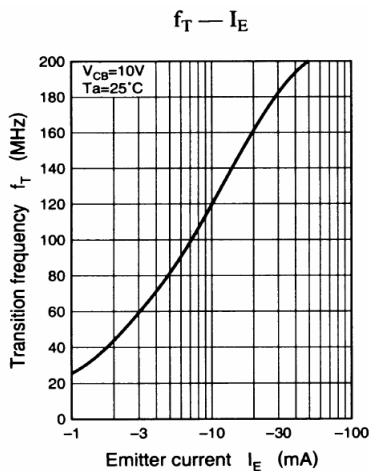
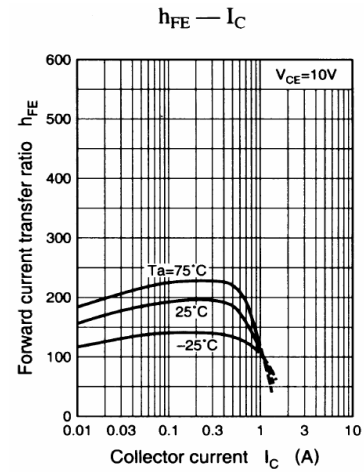
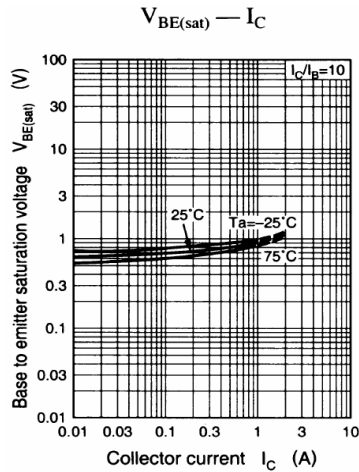
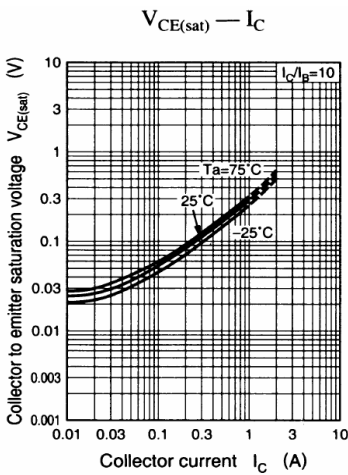
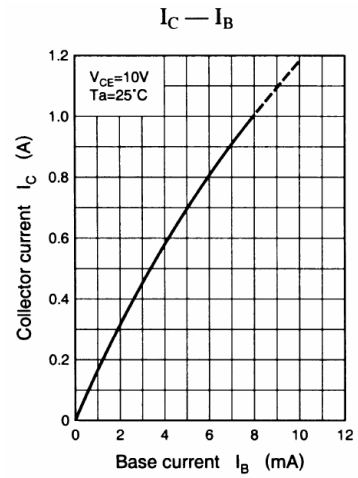
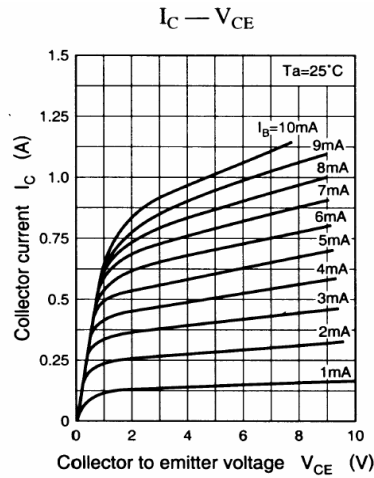
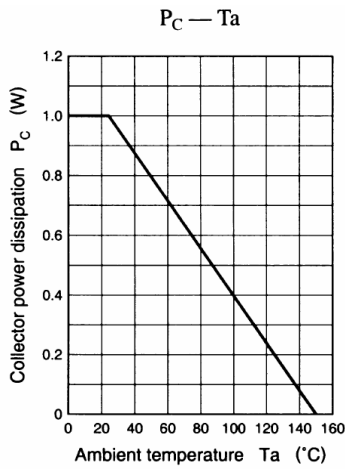
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
VCBO	60	-	-	V	IC=10uA, IE=0
VCEO	50	-	-	V	IC=2mA, IB=0
VEBO	5	-	-	V	IE=10uA, IC=0
ICBO	-	-	0.1	uA	VCB=20V, IE=0
VCE(sat)	-	200	400	mV	IC=0.5A, IB=50mA(note)
VBE(sat)	-	0.85	1.2	V	IC=0.5A, IB=50mA(note)
*hFE1	85	160	340		VCE=10V, IC=500mA(note)
*hFE2	50	100	-		VCE=5V, IC=1A(note)
fT	-	200	-	MHz	VCE=10V, IB=-50mA, f=200MHz
Cob	-	11	20	pF	VCB=10V, IE=0, f=1MHz

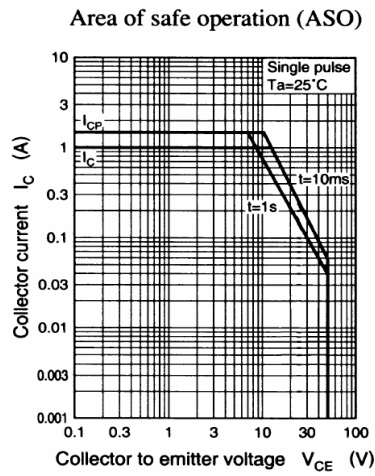
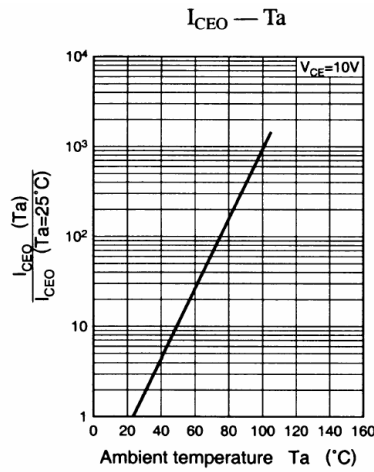
Note: Pulse measurement

### Classification Of hFE1

Rank	Q	R	S
Range	85-170	120-240	170-340

## Characteristics Curve





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