

## GL194A

### NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

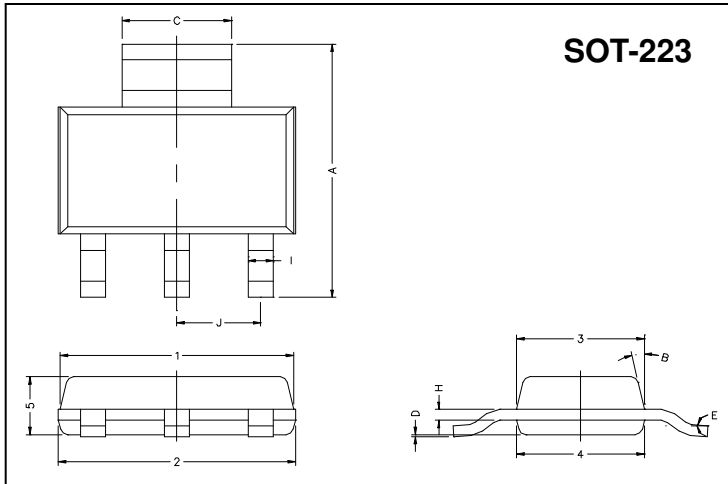
#### Description

The GL194A is designed for medium power amplifier applications.

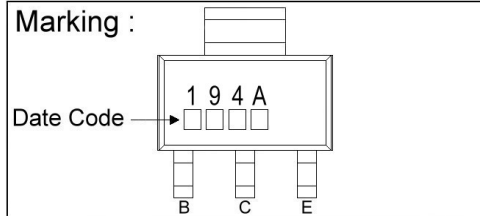
#### Features

- 1 Amp continuous current
- Complementary to GL195A

#### Package Dimensions



Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.70	7.30	B	13° TYP.	
C	2.90	3.10	J	2.30 REF.	
D	0.02	0.10	1	6.30	6.70
E	0°	10°	2	6.30	6.70
I	0.60	0.80	3	3.30	3.70
H	0.25	0.35	4	3.30	3.70
			5	1.40	1.80

#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-65~+150	°C
Collector to Base Voltage	VCBO	40	V
Collector to Emitter Voltage	VCEO	40	V
Emitter to Base Voltage	VEBO	5	V
Collector Current (DC)	IC	1	A
Collector Current (Pulse)	IC	2	A
Total Power Dissipation	PD	2	W

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

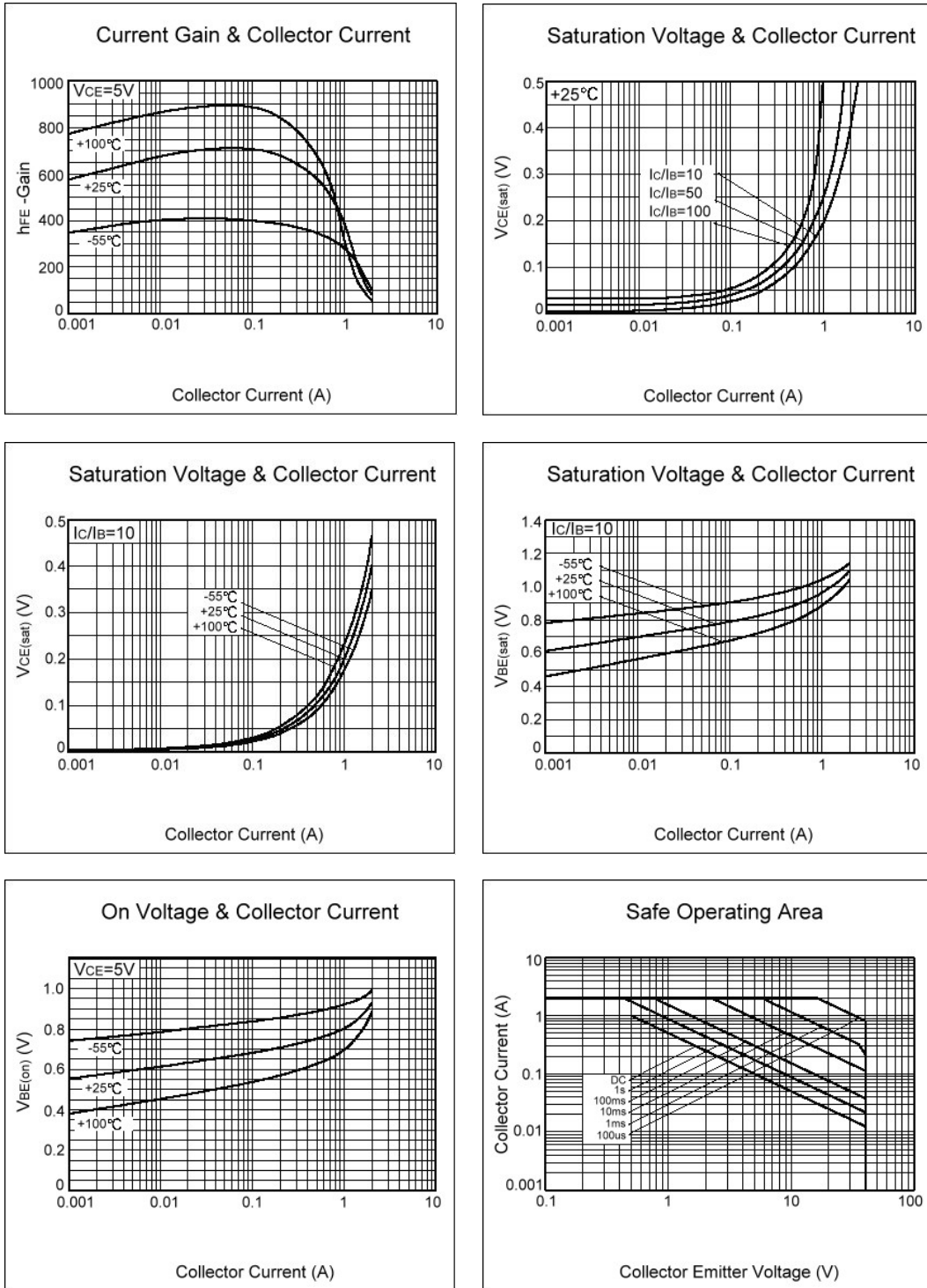
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	IC=100uA, IE=0
*BVCEO	40	-	-	V	IC=10mA, IB=0
BVEBO	5	-	-	V	IE=100uA, IC=0
ICBO	-	-	100	nA	VCB=30V, IE=0
ICES	-	-	100	nA	VCE=30V
IEBO	-	-	100	nA	VEB=4V, IC=0
*VCE(sat)1	-	-	0.3	V	IC=500mA, IB=50mA
*VCE(sat)2	-	-	0.5	V	IC=1A, IB=100mA
*VBE(sat)	-	-	1.1	V	IC=1A, IB=100mA
*VBE(on)	-	-	1.0	V	VCE=5V, IC=1A
*hFE1	300	-	-		VCE=5V, IC=1mA
*hFE2	300	-	900		VCE=5V, IC=500mA
*hFE3	200	-	-		VCE=5V, IC=1A
*hFE4	35	-	-		VCE=5V, IC=2A
fT	150	-	-	MHz	VCE=10V, IC=50mA, f=100MHz
Cob	-	-	10	pF	VCB=10V, IE=0, f=1MHz

\*Measured under pulse condition. Pulse width=300μs, Duty Cycle ≤ 2%

#### Classification Of hFE2

Rank	P	Q
Range	300 ~ 700	500 ~ 900

## Characteristics Curve



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