

GM194A

NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

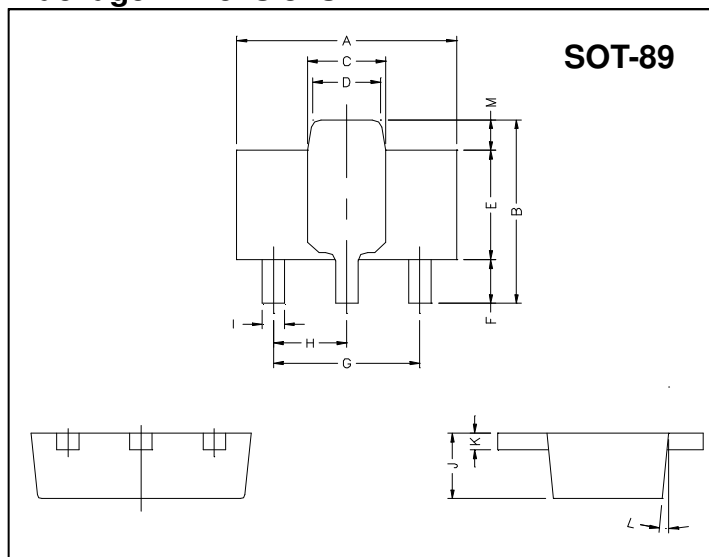
Description

The GM194A is designed for medium power amplifier applications.

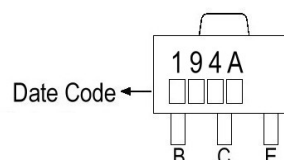
Features

- 1 Amp continuous current
- Complementary to GM195A

Package Dimensions



Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.4	4.6	G	3.00	REF.
B	4.05	4.25	H	1.50	REF.
C	1.50	1.70	I	0.40	0.52
D	1.30	1.50	J	1.40	1.60
E	2.40	2.60	K	0.35	0.41
F	0.89	1.20	L	5°	TYP.
			M	0.70	REF.

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	VCE0	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	1	W

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

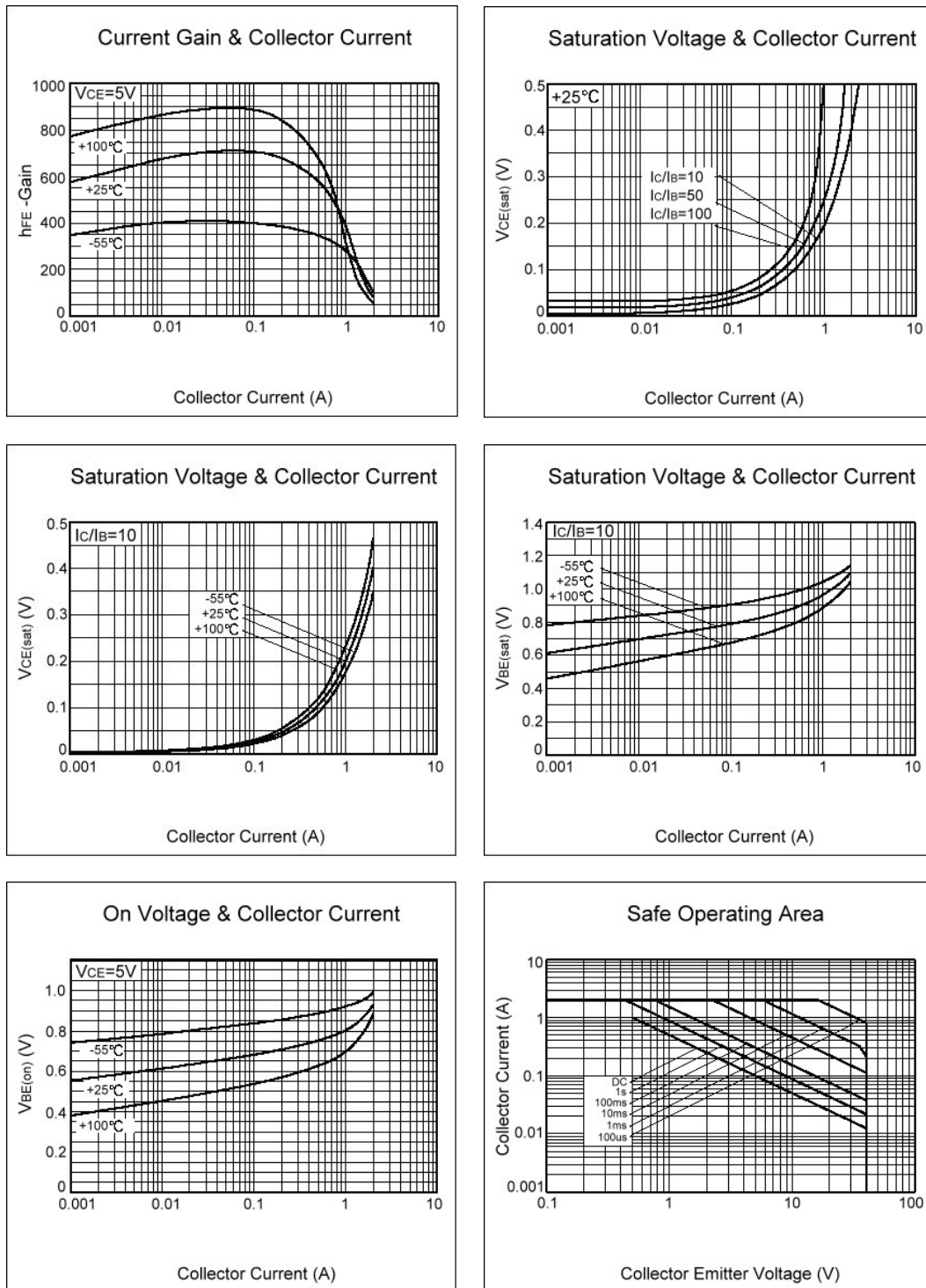
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVcBO	40	-	-	V	Ic=100uA, IE=0
*BVCE0	40	-	-	V	Ic=10mA, IB=0
BVEBO	5	-	-	V	IE=100uA, Ic=0
IcBO	-	-	100	nA	VcB=30V, IE=0
ICES	-	-	100	nA	VcES=30V
IEBO	-	-	100	nA	VEB=4V, Ic=0
*VCE(sat)1	-	-	0.3	V	Ic=500mA, IB=50mA
*VCE(sat)2	-	-	0.5	V	Ic=1A, IB=100mA
*VBE(sat)	-	-	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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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