

GM195A PNP SILICON PLANAR MEDIUM POWER TRANSISTOR

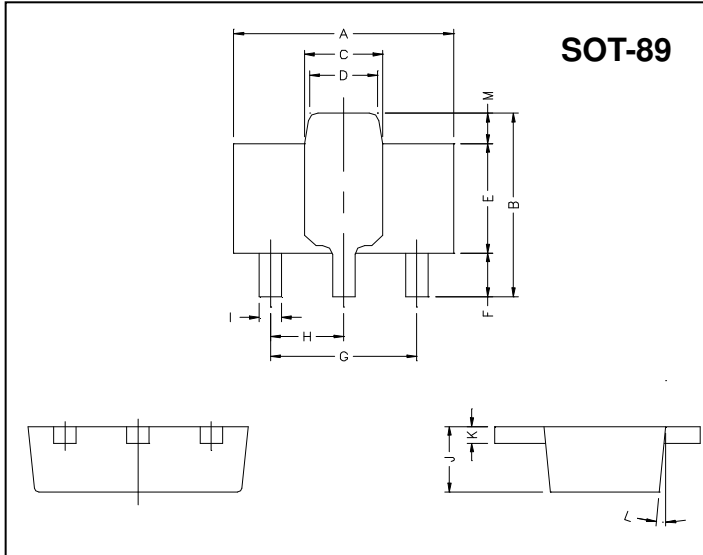
Description

The GM195A is designed for medium power amplifier applications.

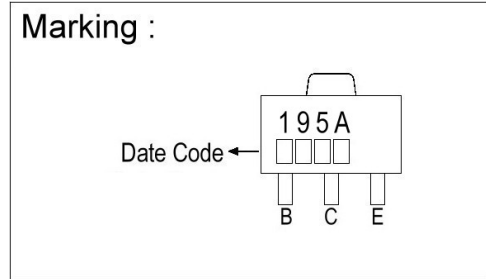
Features

- 1 Amp continuous current
- Complementary to GM194A

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	-55~+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	1	W

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

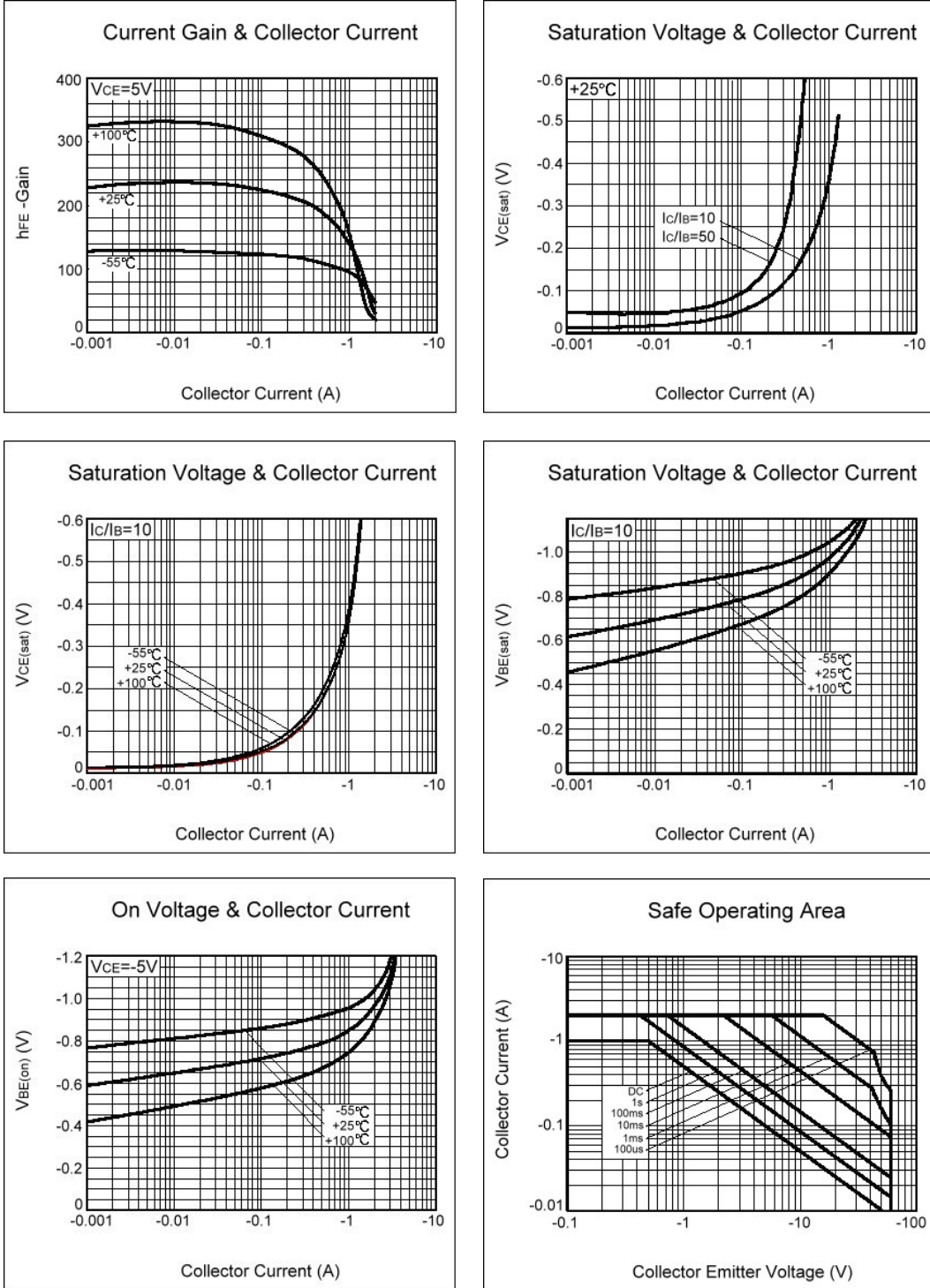
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Vcbo	-40	-	-	V	Ic=-100uA, IE=0
*BVceo	-40	-	-	V	Ic=-10mA, Ib=0
VEBO	-5	-	-	V	IE=-100uA, Ic=0
Icbo	-	-	-100	nA	Vcb=-30V, IE=0
ICES	-	-	-100	nA	Vces=-30V
IEBO	-	-	-100	nA	VEB=-4V, Ic=0
*VCE(sat)1	-	-	-0.2	V	Ic=-100mA, Ib=-1mA
*VCE(sat)2	-	-	-0.35	V	Ic=-500mA, Ib=-20mA
*VCE(sat)3	-	-	-0.5	V	Ic=-1A, Ib=-100mA
*VBE(sat)	-	-	-1.1	V	Ic=-1A, Ib=-50mA
*VBE(on)	-	-	-1.0	V	VCE=-5V, Ic=-1A
*hFE1	300	-	-		VCE=-5V, Ic=-1mA
*hFE2	300	-	900		VCE=-5V, Ic=-100mA
*hFE3	250	-	-		VCE=-5V, Ic=-500mA
*hFE4	160	-	-		VCE=-5V, Ic=-1A
*hFE5	30	-	-		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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