

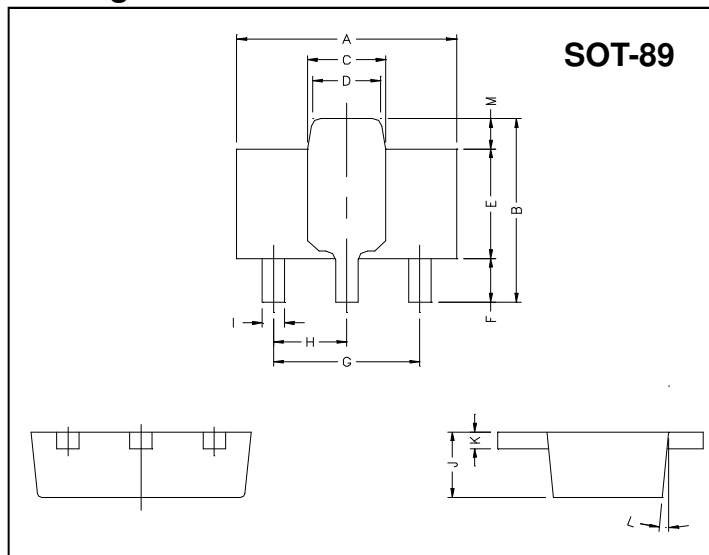
GM649A

PNP EPITAXIAL PLANAR TRANSISTOR

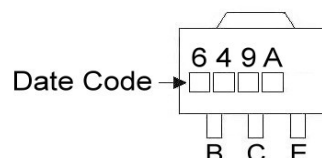
Description

The GM469A is designed for low frequency power amplifier complementary pair with GM669A.

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 Range	TSTG	-55 ~ +150	°C
Collector to Base Voltage	VCBO	-180	V
Collector to Emitter Voltage	VCEO	-160	V
Emitter to Base Voltage	VEBO	-5	V
Collect Current(DC)	Ic	-1.5	A
Collect Current(Pulse)	Ic	-3	A
Total Power Dissipation	Pd	1	W

Electrical Characteristics(TA = 25°C)

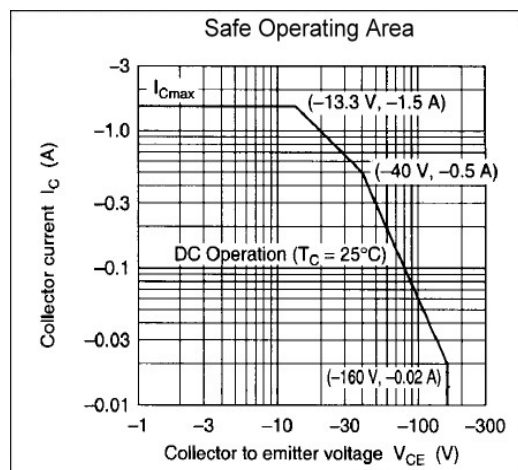
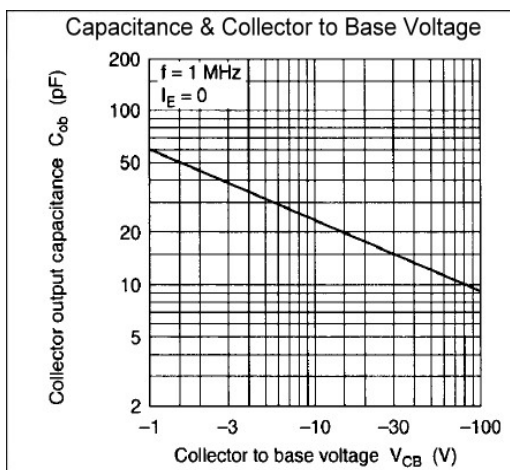
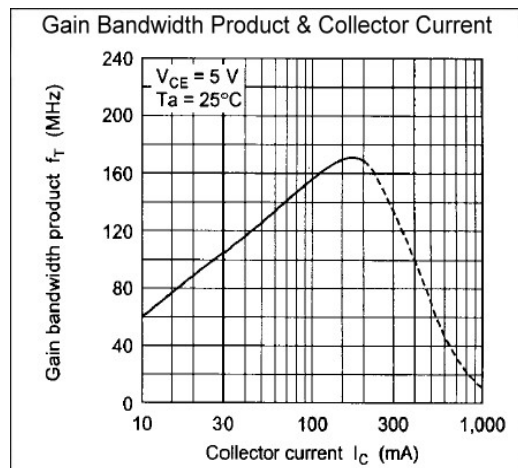
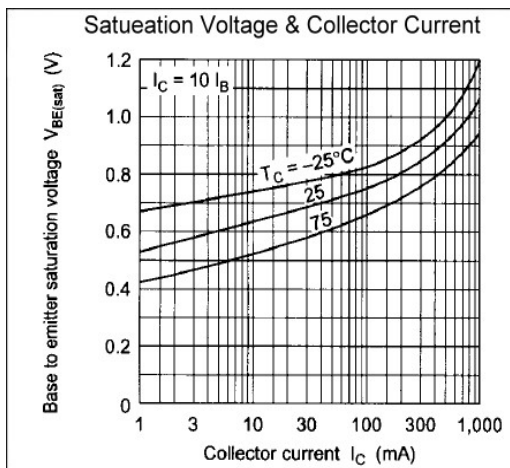
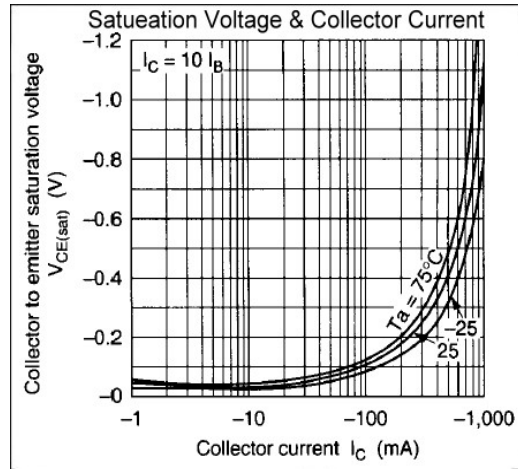
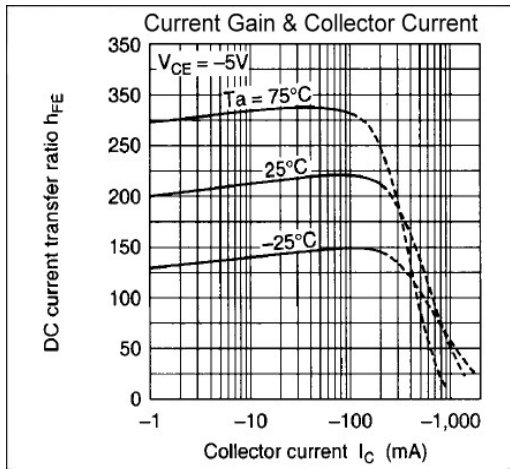
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	-180	-	-	V	IC=-1mA, IE=0
BVCEO	-160	-	-	V	IC=-10mA, IB=0
BVEBO	-5	-	-	V	IE=-1mA, IC=0
ICBO	-	-	-10	uA	VCB=-160V, IE=0
*VCE(sat)	-	-	-1	V	IC=-600mA, IB=-50mA
*VBE(on)	-	-	-1.5	V	VCE=-5V, IC=-150mA
*hFE1	60	-	200		VCE=-5V, IC=-150mA
*hFE2	30	-	-		VCE=-5V, IC=-500mA
fT	-	140	-	MHz	VCE=-5V, IC=-150mA, f=100MHz
Cob	-	27	-	pF	VCB=-10V, f=1MHz

* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Classification Of hFE1

Rank	B	C
hFE1	60 ~ 120	100 ~ 200

Characteristics Curve



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