

GM4401

NPN EPITAXIAL PLANAR TRANSISTOR

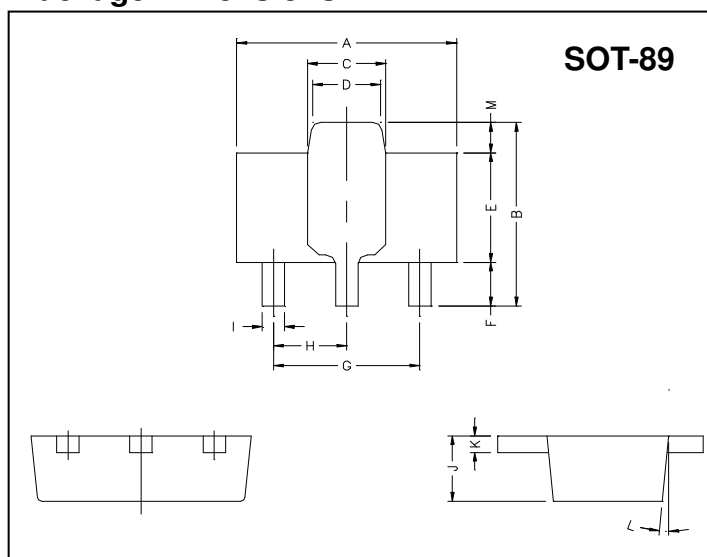
Description

The GM4401 is designed for general purpose switching and amplifier applications.

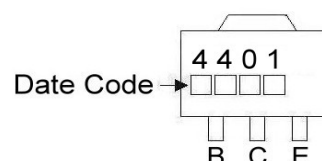
Features

- Complementary to GM4403
- High Power Dissipation: 1W at 25°C
- High DC Current Gain: 100-300 at 150mA

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	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage at Ta=25°C	V _{CBO}	60	V
Collector to Emitter Voltage at Ta=25°C	V _{CEO}	40	V
Emitter to Base Voltage at Ta=25°C	V _{EBO}	5	V
Collector Current at Ta=25°C	I _C	600	mA
Total Power Dissipation at Ta=25°C	P _D	1	W

Characteristics at Ta = 25°C

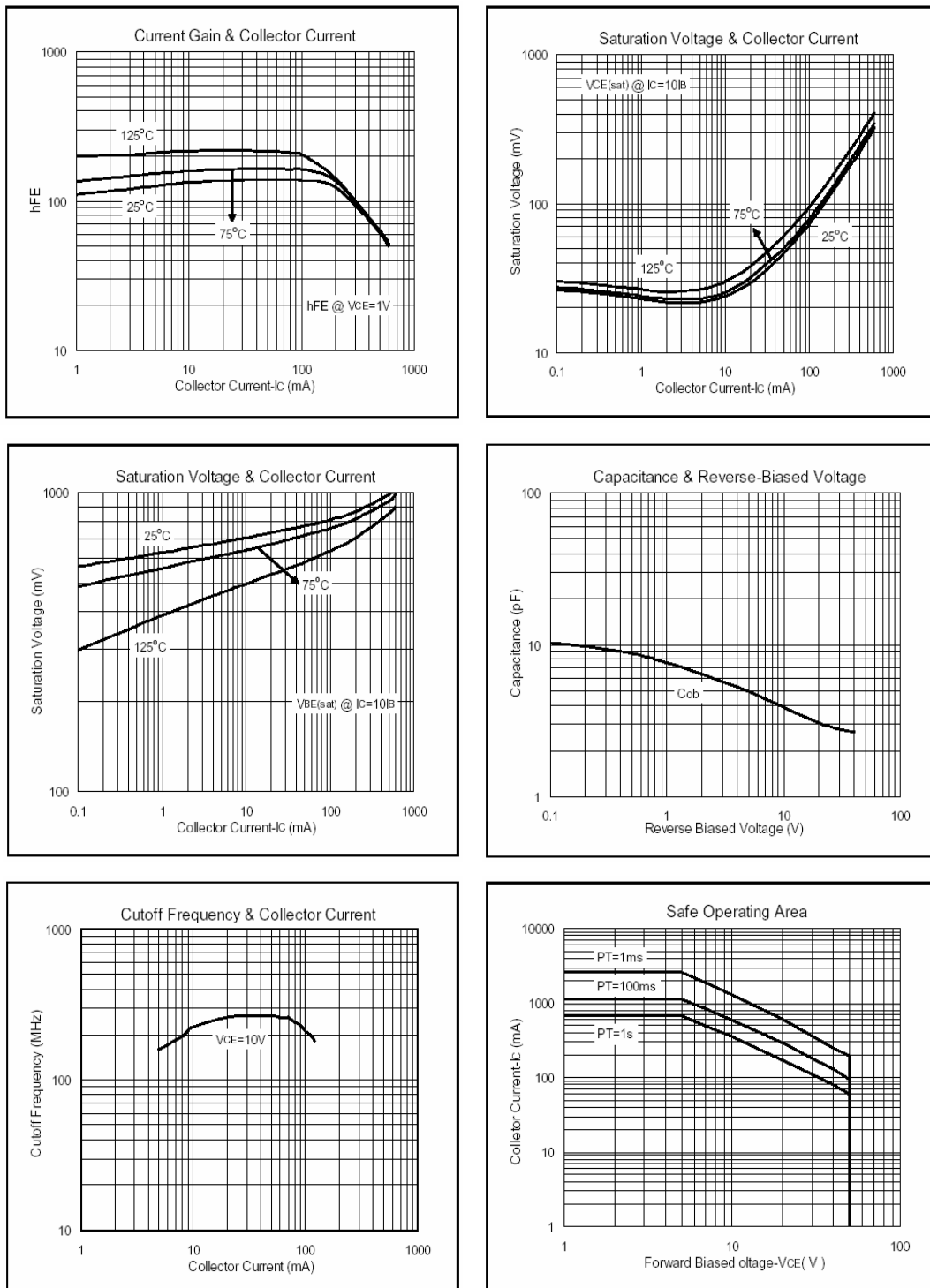
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
B _V C _{BO}	60	-	-	V	I _C =100uA
B _V C _{EO}	40	-	-	V	I _C =1mA
B _V E _{BO}	5	-	-	V	I _E =10uA
I _C E _X	-	-	100	nA	V _{CE} =35V, V _{BE} = 0.4V
*V _{CE} (sat)1	-	-	400	mV	I _C =150mA, I _B =15mA
*V _{CE} (sat)2	-	-	750	mV	I _C =500mA, I _B =50mA
*V _{BE} (sat)1	750	-	950	mV	I _C =150mA, I _B =15mA
*V _{BE} (sat)2	-	-	1.2	V	I _C =500mA, I _B =50mA
*h _{FE} 1	20	-	-		V _{CE} =1V, I _C =0.1mA
*h _{FE} 2	40	-	-		V _{CE} =1V, I _C =1mA
*h _{FE} 3	80	-	-		V _{CE} =1V, I _C =10mA
*h _{FE} 4	100	-	300		V _{CE} =1V, I _C =150mA
*h _{FE} 5	40	-	-		V _{CE} =2V, I _C =500mA
f _T	250	-	-	MHz	V _{CE} =10V, I _C =20mA, f=100MHz
C _{ob}	-	-	6.5	pF	V _{CB} =5V, f=1MHz

Classification Of h_{FE}4

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

Rank	A	B
Range	100-210	190-300

Characteristics Curve



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