

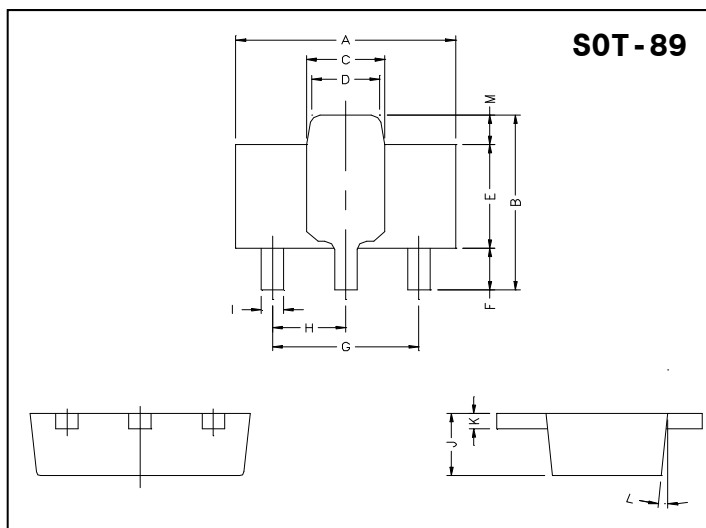
GM1766

NPN EPITAXIAL PLANAR TRANSISTOR

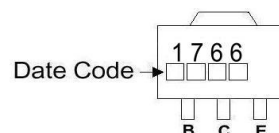
Description

The GM1766 is suited for the output stage of 0.5W audio, voltage regulator, and relay driver.

Package Dimension



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

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage at Ta=25	VCBO	40	V
Collector to Emitter Voltage at Ta=25	VCEO	32	V
Emitter to Base Voltage at Ta=25°C	VEBO	5.0	V
Collector Current at Ta=25°C	I _C	2	A
Total Power Dissipation at Ta=25°C	PD	1.2	W

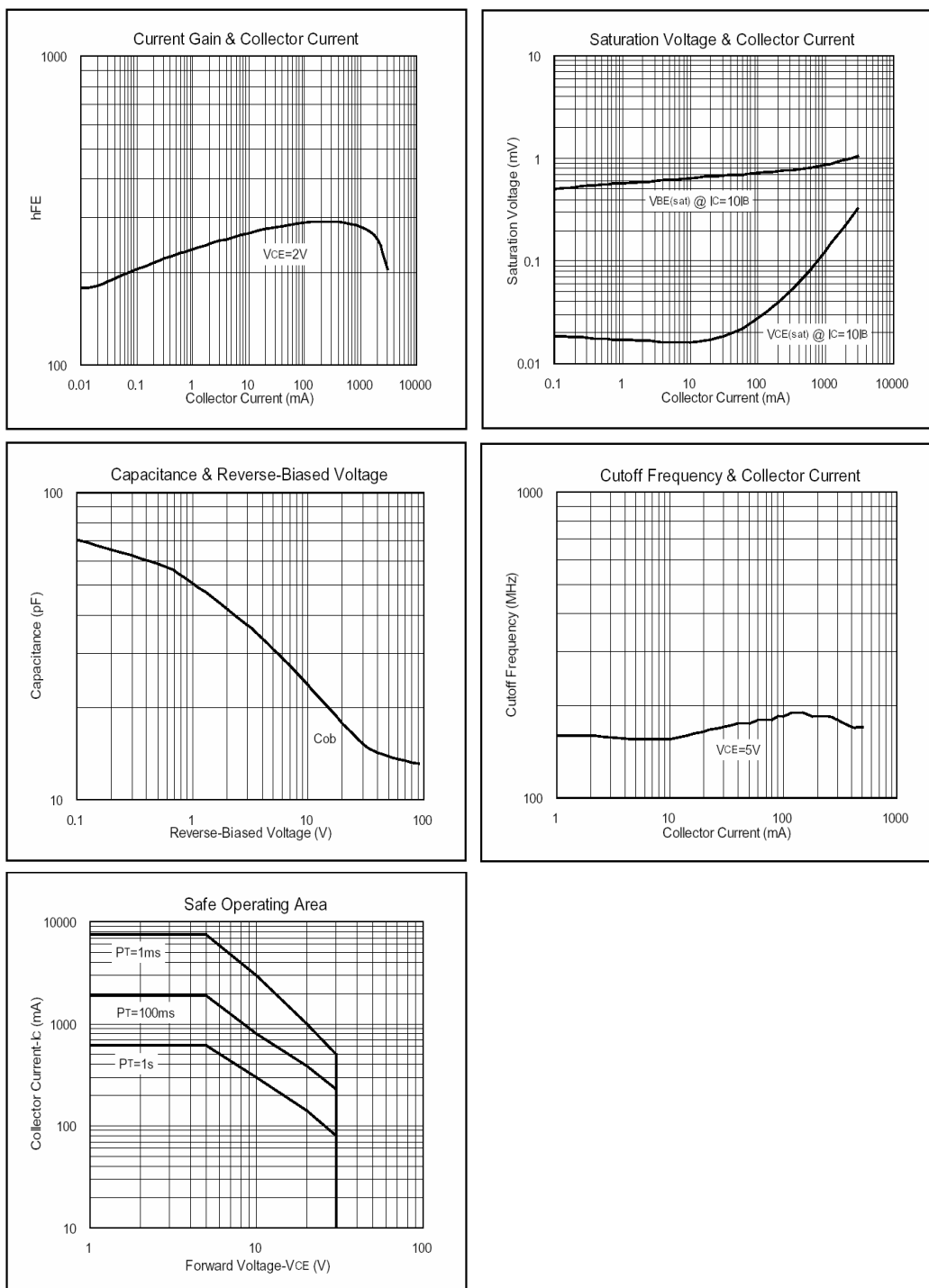
Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	40	-	-	V	I _C =50μA, I _E =0
BVCEO	32	-	-	V	I _C =1mA, I _B =0
BVEBO	5	-	-	V	I _E =50μA
ICBO	-	-	1	μA	V _{CB} =20V
IEBO	-	-	1	μA	V _{EB} =4V
VCE(sat)	-	0.5	0.8	V	I _C =2A, I _B =0.2A
VBE(sat)	-	-	2	V	I _C =2A, I _B =0.2A
hFE	82	-	390		V _{CE} =3V, I _C =0.5A
FT	-	100	-	MHz	V _{CE} =5V, I _C =50mA, f=100MHz
Cob	-	30	-	Pf	V _{CB} =10V, I _E =0, f=1MHz

Classification Of hFE

Rank	P	Q	R
Range	82-180	120-270	180-390

Characteristics Curve



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