

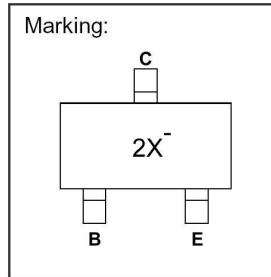
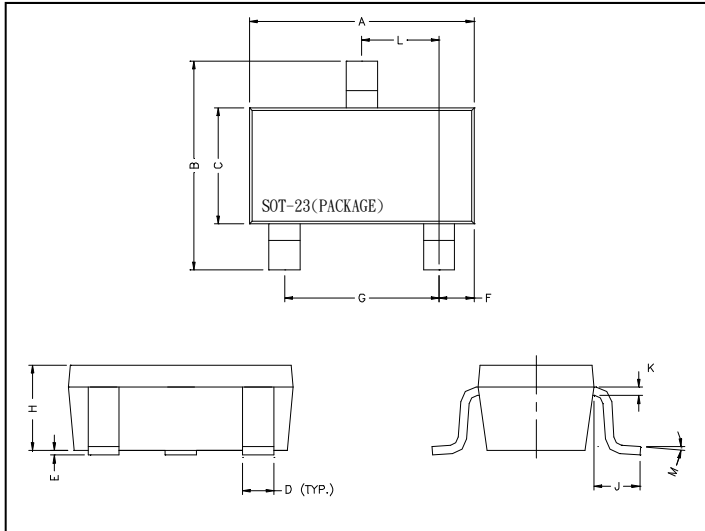
GMBT4401

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GMBT4401 is designed for general purpose switching amplifier applications.

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.70	3.10	G	1.90	REF.
B	2.40	2.80	H	1.00	1.30
C	1.40	1.60	K	0.10	0.20
D	0.35	0.50	J	0.40	-
E	0	0.10	L	0.85	1.15
F	0.45	0.55	M	0°	10°

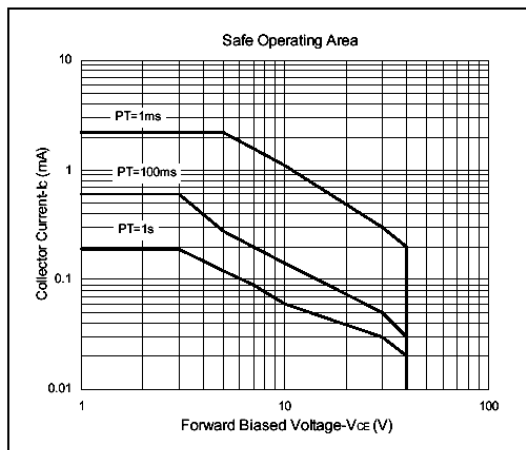
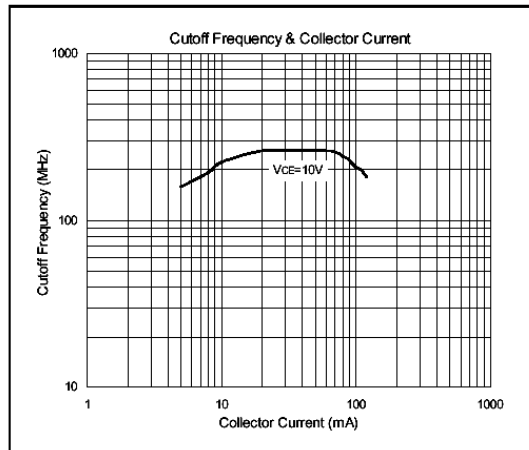
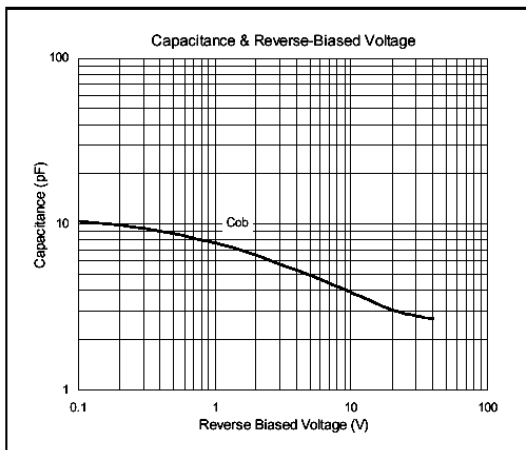
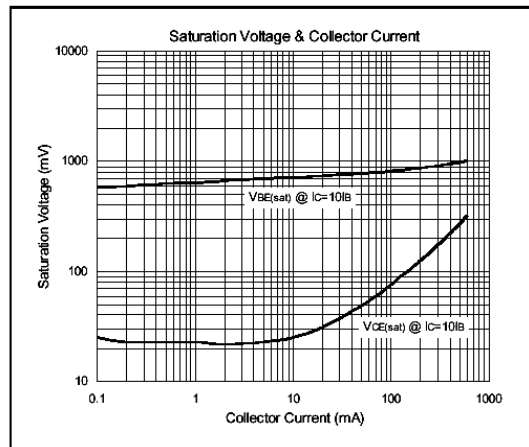
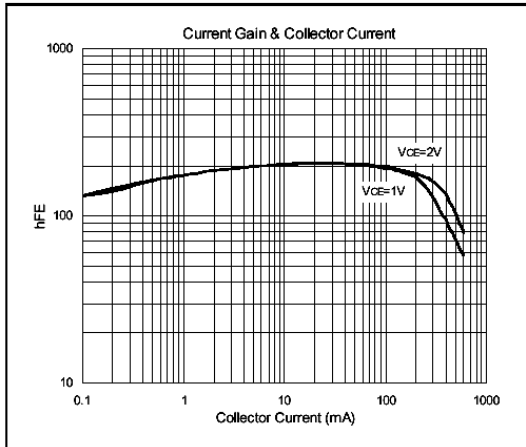
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	V _{CB0}	60	V
Collector to Emitter Voltage	V _{CE0}	40	V
Emitter to Base Voltage	V _{EB0}	6	V
Collector Current	I _C	600	mA
Total Power Dissipation	PD	225	mW

Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CB0}	60	-	-	V	I _C =100uA
V _{CE0}	40	-	-	V	I _C =1mA
V _{EB0}	6	-	-	V	I _E =10uA
I _{CEX}	-	-	100	nA	V _{CE} =35V, V _{BE} = -0.4V
V _{CE(sat)1}	-	-	0.4	V	I _C =150mA, I _B =15mA
V _{CE(sat)2}	-	-	750	mV	I _C =500mA, I _B =50mA
V _{BE(sat)1}	650	-	850	mV	I _C =150mA, I _B =15mA
V _{BE(sat)2}	-	-	1.2	V	I _C =500mA, I _B =50mA
h _{FE1}	20	-	-		V _{CE} =1V, I _B =0.1mA
h _{FE2}	40	-	-		V _{CE} =1V, I _C =1mA
h _{FE3}	80	-	-		V _{CE} =1V, I _C =10mA
h _{FE4}	100	-	300		V _{CE} =1V, I _C =150mA
h _{FE5}	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

Characteristics Curve



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