

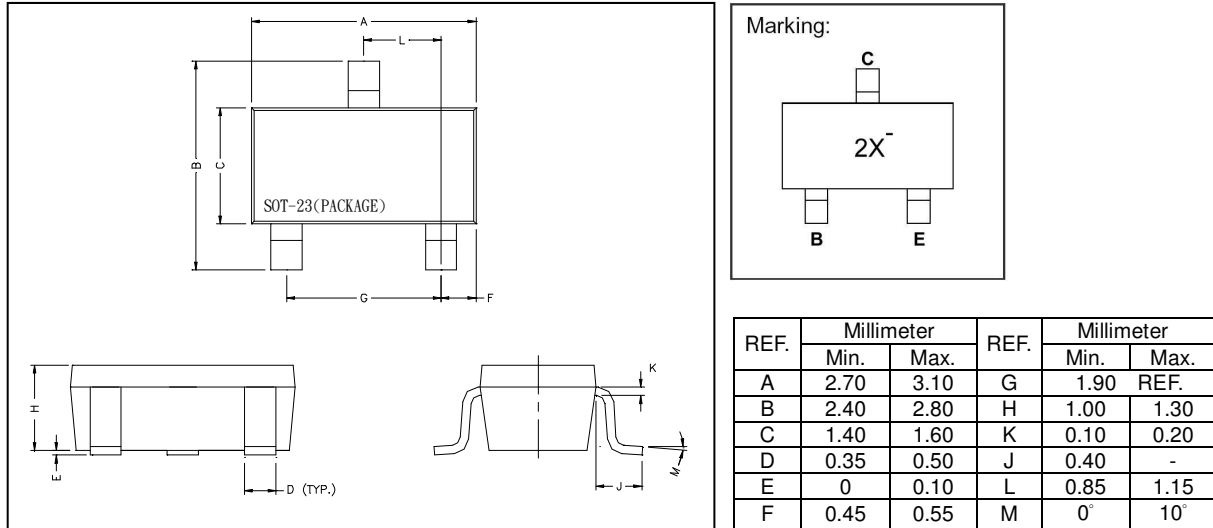
GMBT4401

NPN EPITAXIAL PLANAR TRANSISTOR

Description

The GMBT4401 is designed for general purpose switching amplifier applications.

Package Dimensions



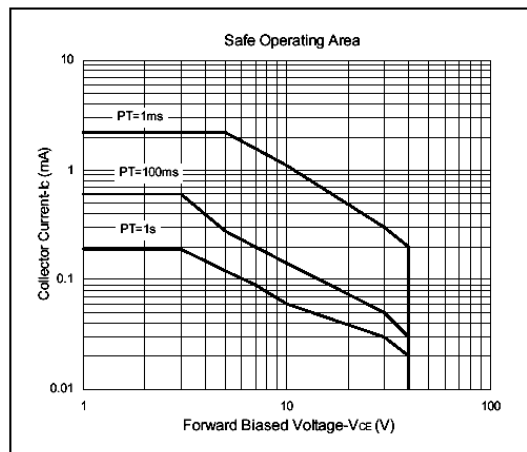
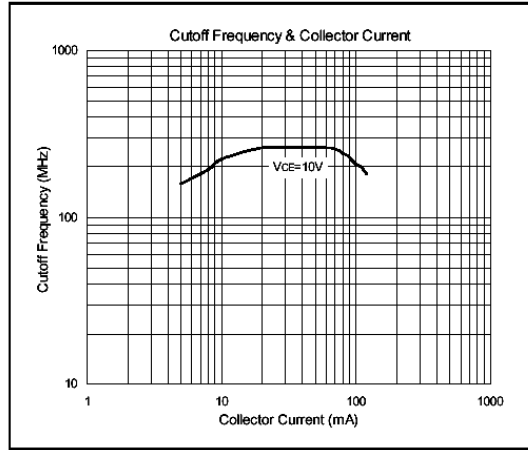
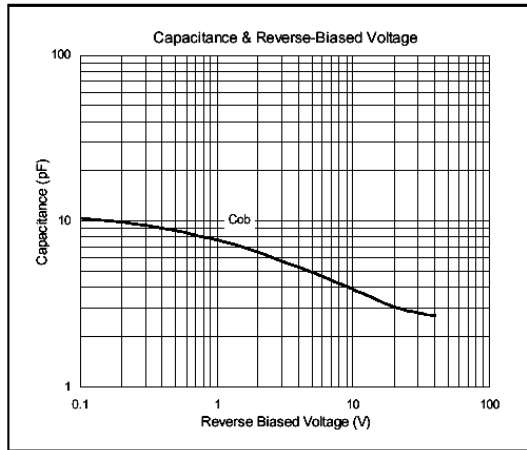
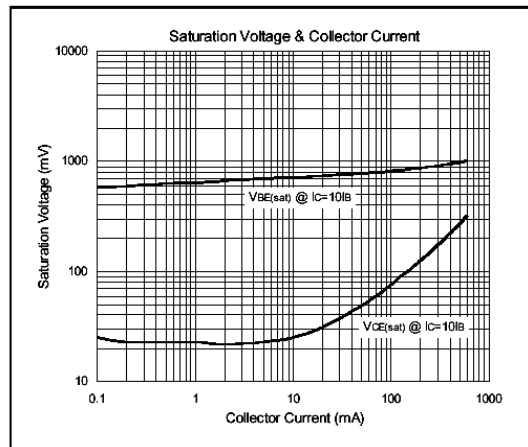
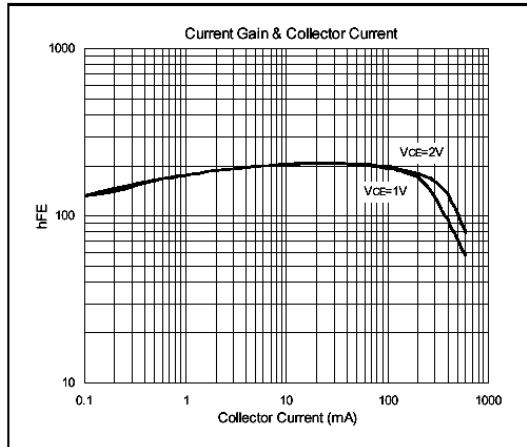
Absolute Maximum Ratings at Ta = 25°C

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

Characteristics at Ta = 25°C

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
V _{CBO}	60	-	-	V	I _C =100uA
V _{CEO}	40	-	-	V	I _C =1mA
V _{EB0}	6	-	-	V	I _E =10uA
I _C EX	-	-	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 _{FE} 1	20	-	-		V _{CE} =1V, I _B =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

Characteristics Curve



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