

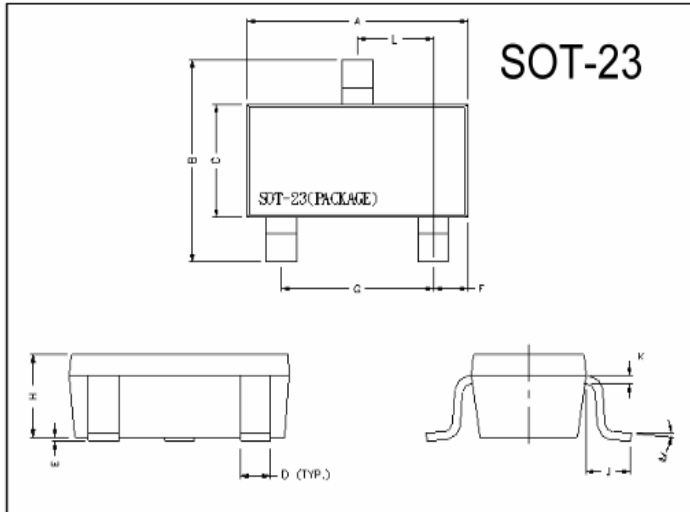
GMBT5551

NPN EPITAXIAL PLANAR TRANSISTOR

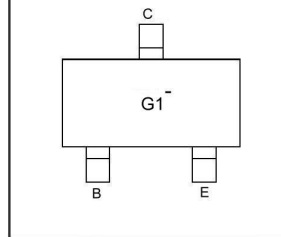
Description

The GMBT5551 is designed for general purpose applications requiring high breakdown voltages.

Package Dimensions



Marking:



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°

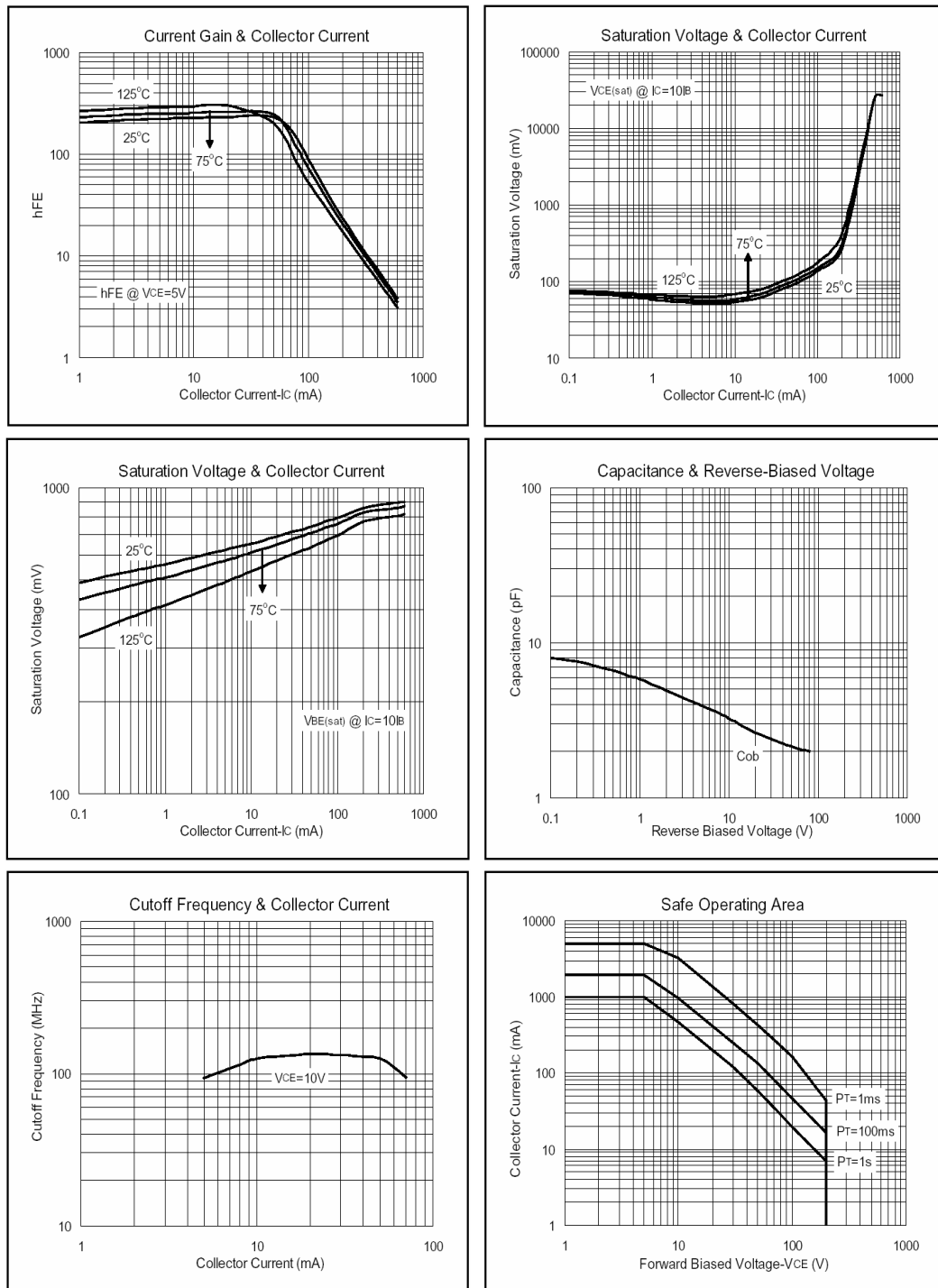
Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	T _j	+150	°C
Storage Temperature	T _{stg}	-55 ~ +150	°C
Collector to Base Voltage	VCBO	180	V
Collector to Emitter Voltage	VCES	160	V
Emitter to Base Voltage	VEBO	6.0	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
BVCBO	180	-	-	V	I _C =100μA
BVCEO	160	-	-	V	I _C =1mA
BVEBO	6	-	-	V	I _E =10μA
ICBO	-	-	50	nA	VCB=120V
IEBO	-	-	50	nA	VEB=4V
VCE(sat)1	-	-	150	mV	I _C =10mA, I _B =1mA
VCE(sat)2	-	-	200	mV	I _C =50mA, I _B =5mA
VBE(sat)1	-	-	1	V	I _C =10mA, I _B =1mA
VBE(sat)2	-	-	1	V	I _C =50mA, I _B =5mA
hFE1	80	-	-		VCE=5V, I _C =1mA
hFE2	80	-	250		VCE=5V, I _C =10mA
hFE3	30	-	-		VCE=5V, I _C =50mA
f _T	100		300	MHz	VCE=10V, I _C =10mA, f=100MHz
Cob	-	-	6	pF	VCB=10V, f=1MHz

Characteristics Curve



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