

GSMBT4076 NPN EPITAXIAL PLANAR TRANSISTOR

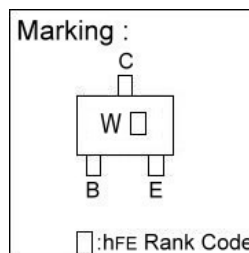
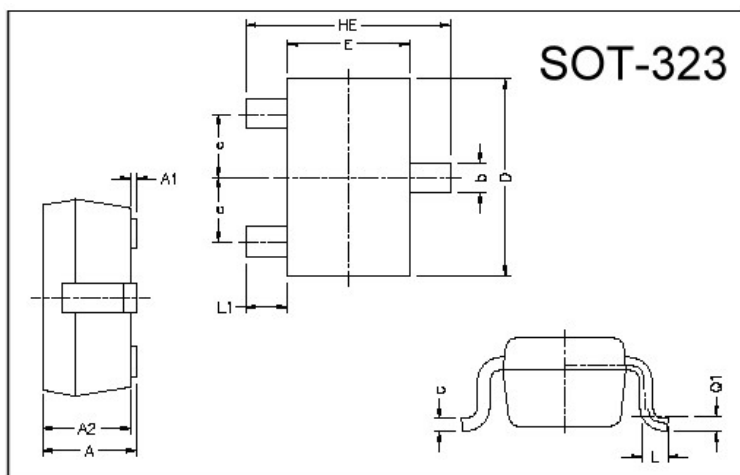
Description

The GSMBT4076 is designed for general purpose switching and amplifier applications.

Features

- Excellent hFE Linearity : hFE2=25 (Min.) @VCE=6v, IC=400mA
- Complementary to GSMBT2015

Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	35	V
Collector to Emitter Voltage	VCEO	30	V
Emitter to Base Voltage	VEBO	5	V
Collector Current	Ic	500	mA
Base Current	Ib	50	mA
Total Power Dissipation	PD	250	mW

Electrical Characteristics (Ta = 25°C)

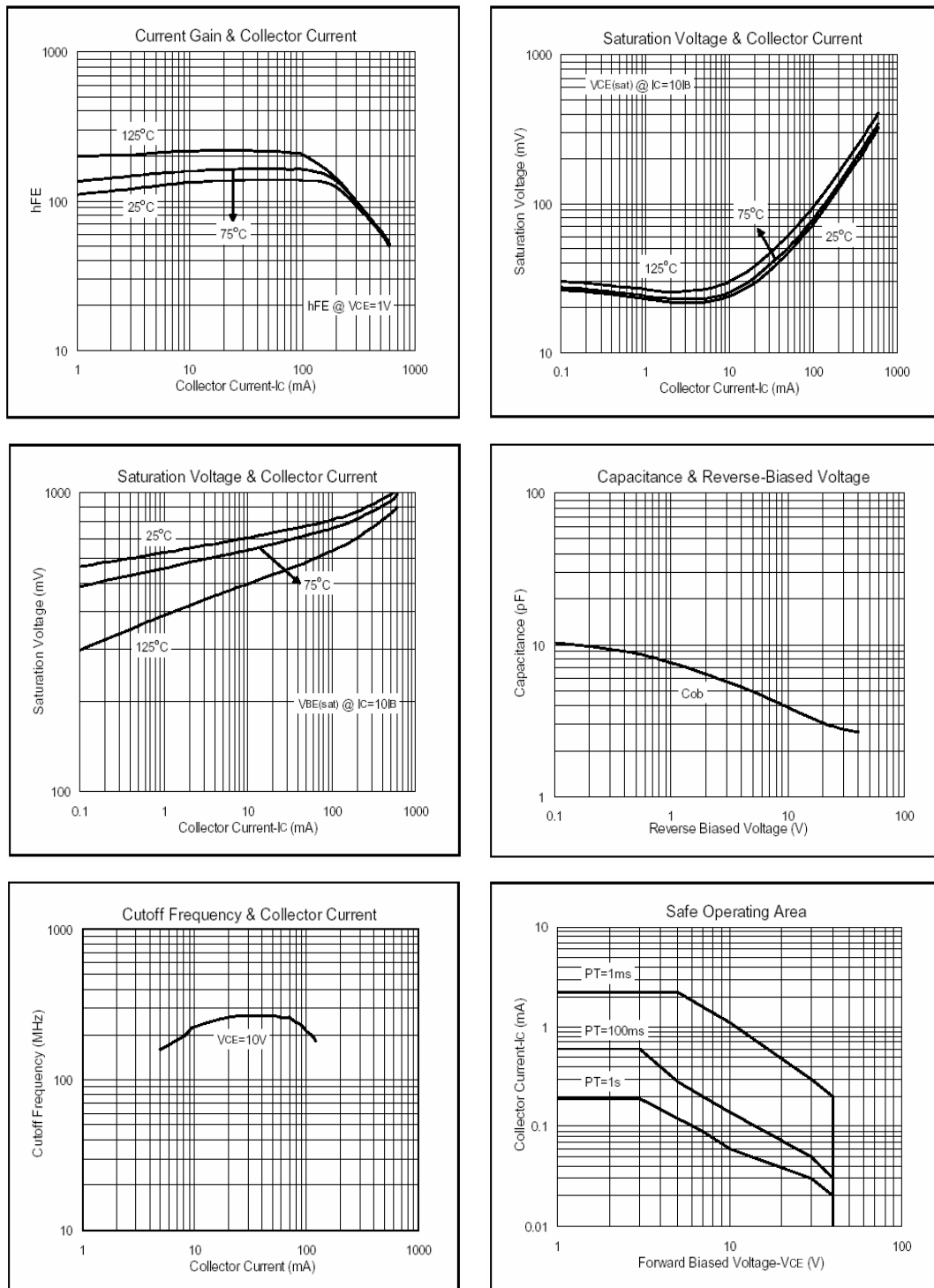
Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BVCBO	35	-	-	V	Ic=100uA, IE=0
BVCEO	30	-	-	V	Ic=1mA, Ib=0
BVEBO	5	-	-	V	IE=10uA, Ic=0
ICBO	-	-	100	nA	VCB=35V, IE=0
IEBO	-	-	100	nA	VEB=5V, Ic=0
*VCE(sat)	-	-	250	mV	Ic=100mA, Ib=10mA
*VBE(sat)	-	-	1.2	V	Ic=500mA, Ib=50mA
*hFE1	70	-	240		VCE=1V, Ic=100mA
*hFE2	25	-	-		VCE=6V, Ic=400mA
fT	250	-	-	MHz	VCE=10V, Ic=20mA, f=100MHz
Cob	-	-	6.5	pF	VCB=10V, IE=0, f=1MHz

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

Classification Of hFE

Rank	WO	WY
hFE1 Range	70 - 140	120 - 240
hFE2 Range	Min. 25	Min. 40

Characteristics Curve



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