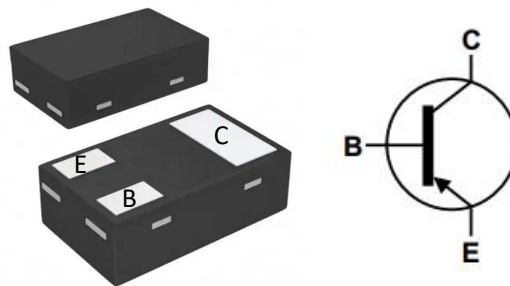


Features

- ◆ Power Dissipation of 200mW
- ◆ High Stability and High Reliability
- ◆ Epoxy UL: 94V-0
- ◆ RoHS Compliant
- ◆ Pb-Free
- ◆ Halogen Free



特征

- ◆ 功耗 200mW
- ◆ 高稳定性和高可靠性
- ◆ 环氧树脂 UL 易燃等级:94V-0
- ◆ 符合 RoHS 标准
- ◆ 不含铅
- ◆ 不含卤素

DFN1006-3L

B	BASE
E	EMITTER
C	COLLECTOR

Application 应用

- ◆ General Switching and Amplification 通用开关与放大应用
- ◆ Power management circuit 电源管理电路
- ◆ RF circuit 射频电路

MARKING CONTENT

丝印内容

Device Type 器件型号	Device Marking 器件印字
PMBT3906M,315-CN	3N

Ordering information

订购信息

Device Type 器件型号	Package 封装	Reel Size 卷盘尺寸	SPQ 标准包装量	MPQ 最小包装数量	MOQ 最小订购数量
PMBT3906M,315-CN	DFN1006-3L	7 Inch 英寸	10000/Reel	60000/Box 盒	360000/Carton 箱

1、Package 封装

Table 1__Characteristic values

表 1__特征数值

Parameter 参数	Symbol 符号	Note or test condition 注释或测试条件	Values 数值			Unit 单位
			Min. 最小	Typ. 典型	Max. 最大	
Storage temperature 储存温度	T _{stg}	/	-55	/	+150	°C
Thermal resistance, Junction-Ambient 结至环境热阻	R _{θJA}	/	/	/	600	°C/W

2、Transistor

Table 2__Maximum Ratings ($T_A = 25^\circ\text{C}$ unless otherwise noted)

表 2__极限参数(如无另外标识, 环境温度=25°C)

Parameter 参数	Symbol 符号	Note or test condition 注释或测试条件	Value 数值	Unit 单位
Collector-Emitter Voltage 集电极-发射极电压	V _{CEO}	/	-40	V
Collector-Base Voltage 集电极-基极电压	V _{CBO}	/	-40	V
Emitter-Base Voltage 发射极-基极电压	V _{EBO}	/	-5	V
Continuous Collector Current 连续集电极电流	I _C	/	-200	mA
Collector Power Dissipation 集电极功耗	P _C	/	200	mW
Operating junction temperature 工作结温度	T _j	/	-55~+150	°C

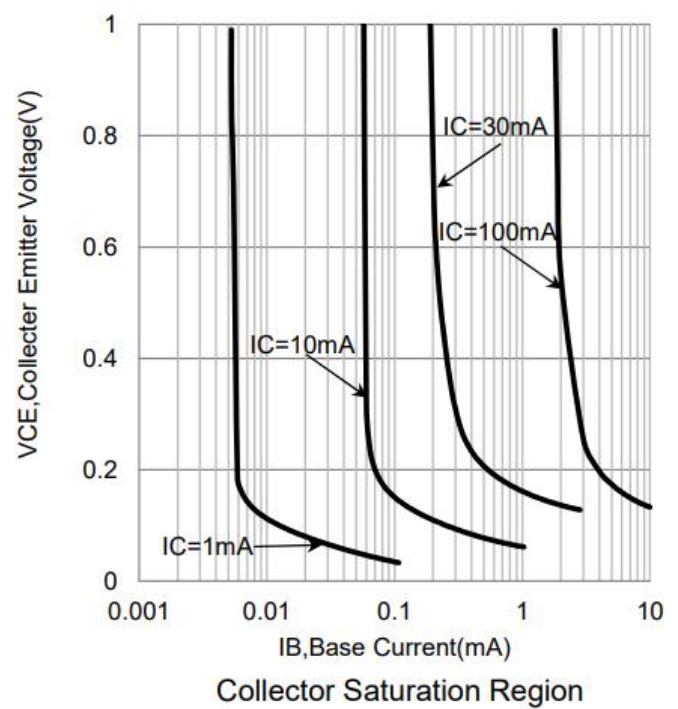
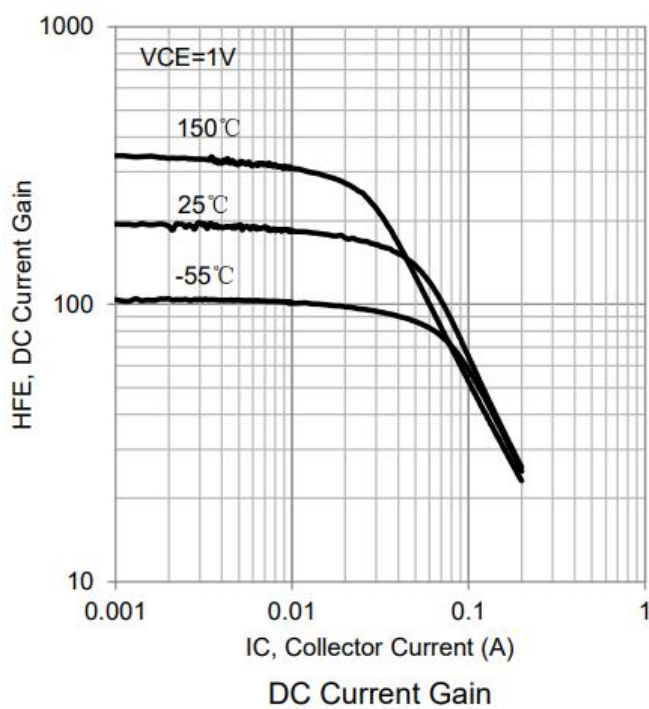
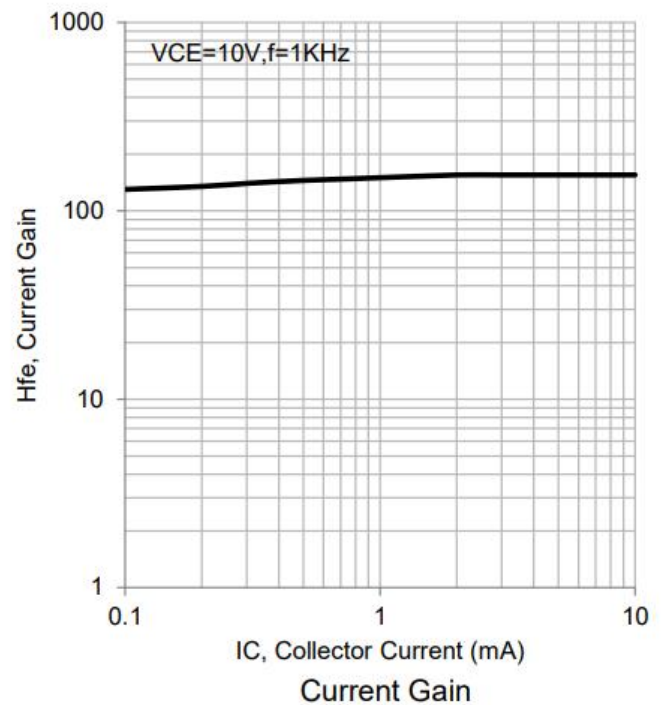
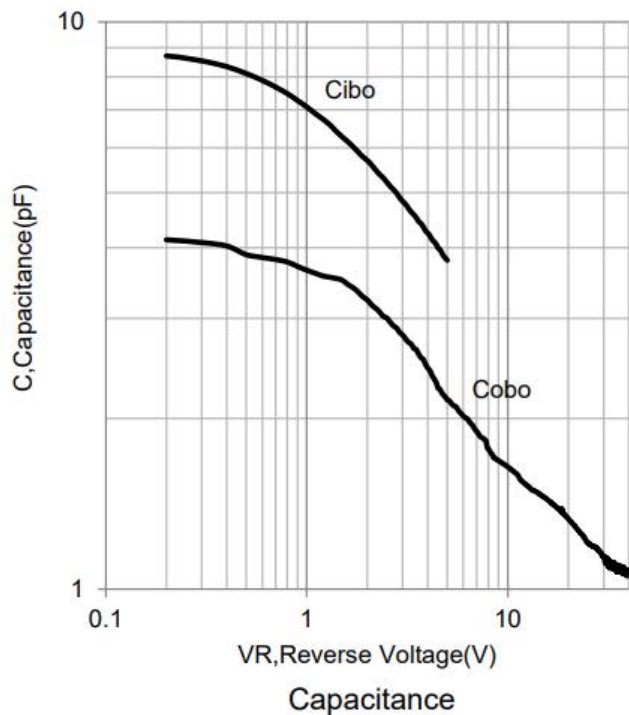
Table 3__Electrical Characteristic Values($T_A = 25^\circ\text{C}$, unless otherwise noted)

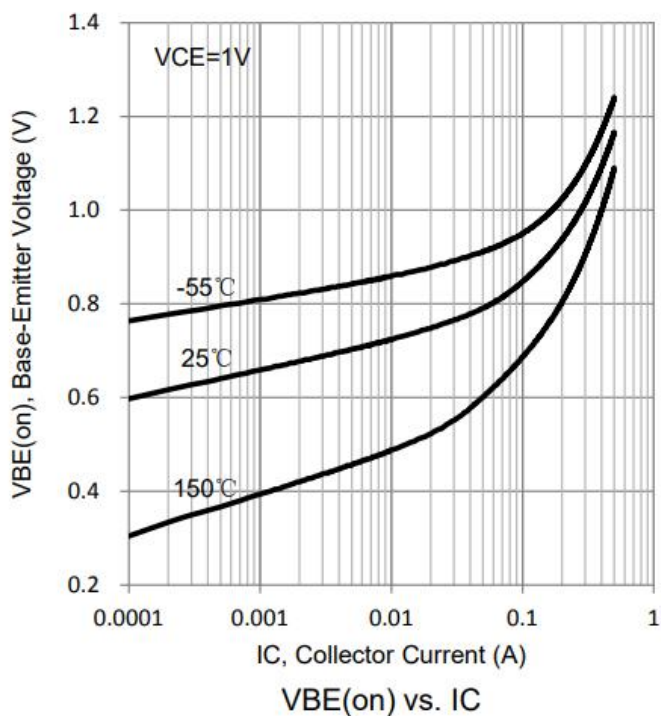
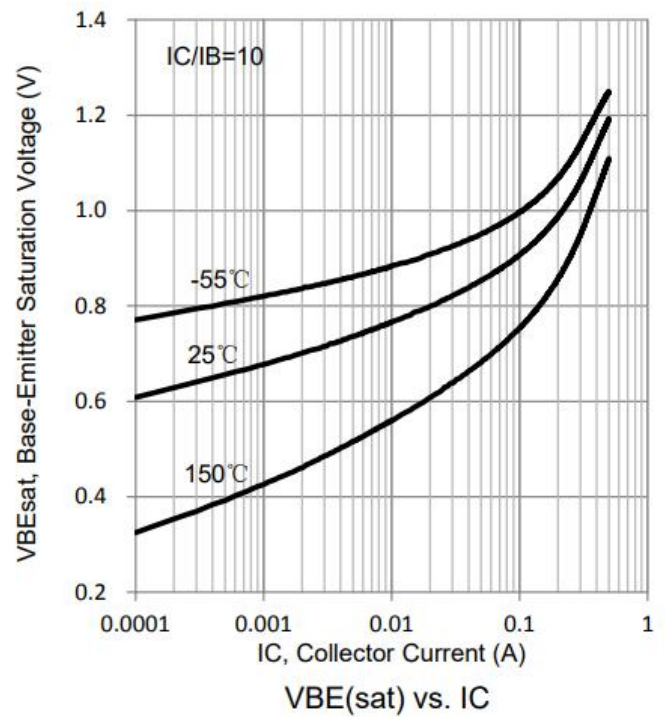
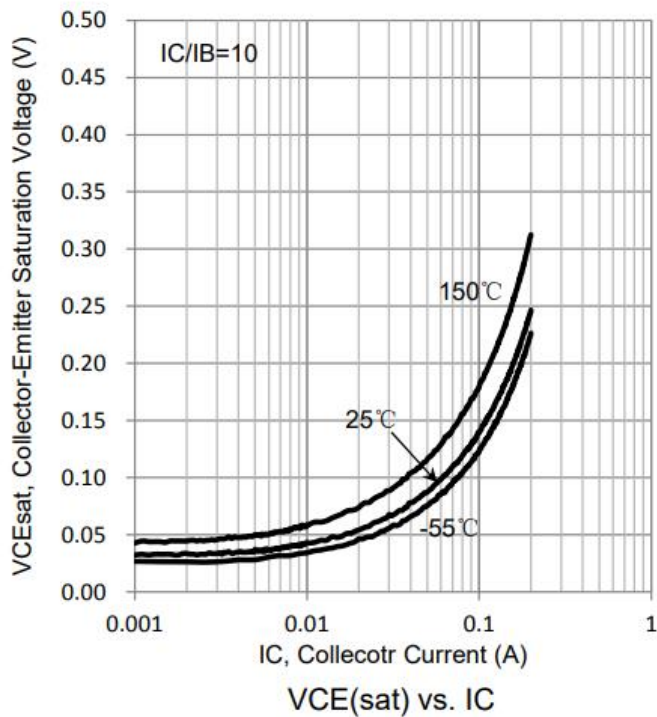
表 3__电气特性数值(如无另外标识, 环境温度=25°C)

Parameter 参数	Symbol 符号	Note or test condition 注释或测试条件	Limits 限值			Unit 单位
			Min.	Typ.	Max.	
Collector-emitter breakdown voltage 集电极-发射极击穿电压	V _{(BR)CEO}	I _C = -1mA I _B = 0A	-40	/	/	V
Collector-base breakdown voltage 集电极-基极击穿电压	V _{(BR)CBO}	I _C = -10uA I _E = 0A	-40	/	/	V
Emitter-base breakdown voltage 发射极-基极击穿电压	V _{(BR)EBO}	I _E = -10uA I _B = 0A	-5	/	/	V
Collector cut-off current 集电极-基极 反向饱和电流	I _{CEX}	V _{CE} = -30V V _{EB} = -3V	/	/	-50	nA
Emitter cut-off current 发射极-基极反向电流	I _{EBO}	V _{EB} = -5V I _C = 0A	/	/	-100	nA

Parameter 参数	Symbol 符号	Note or test condition 注释或测试条件	Limits 限值			Unit 单位
			Min.	Typ.	Max.	
DC current gain 直流电流增益	hFE	VCE=-1V IC=-0.1mA	60	/	/	/
		VCE=-1V IC=-1.0mA	80	/	/	
		VCE=-1V IC=-10mA	100	/	300	
		VCE=-1V IC=-50mA	60	/	/	
		VCE=-1V IC=-100mA	30	/	/	
Collector-emitter saturation voltage 集电极-发射极饱和电压	VCE(sat)	IC=-10mA IB=-1mA	/	/	-0.25	V
		IC=-50mA IB=-5mA	/	/	-0.40	
Base-emitter saturation voltage 基极-发射极间饱和电压	VBE(sat)	IC=-10mA IB=-1mA	-0.65	/	-0.85	V
		IC=-50mA IB=-5mA	/	/	-0.95	
Transition frequency 特征频率	fT	VCE=-20V IC=-10mA f=100MHz	250	/	/	MHz
Delay time 延迟时间	td	VCC =-3V VBE =-0. 5VIC =- 10mA	/	/	35	nS
Rise time 上升时间	tr		/	/	35	
Storage time 存贮时间	ts	IB1=-1mA VCC=-3V IC=-10mA,	/	/	225	nS
Fall time 下降时间	tf	IB1=IB2=-1mA	/	/	75	nS
Noise Figure 噪声系数	NF	VCE=-5V IC=-100uA Rs=1.0kΩ f=1.0kHz	/	/	4	dB

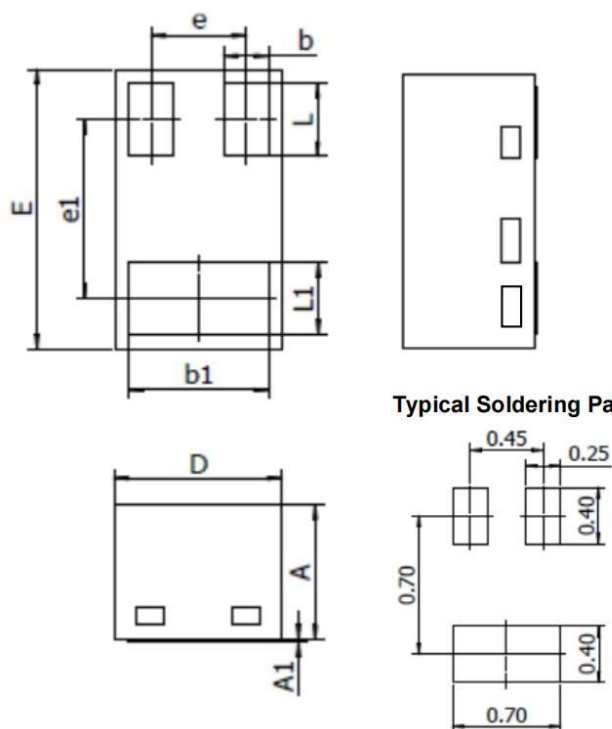
3、Characteristics diagrams 特性图





4、Package 封装信息

DFN1006-3L Package Information



Typical Soldering Pattern(mm):

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.46	0.50	0.018	0.020
A1	---	0.03	---	0.001
D	0.55	0.65	0.022	0.026
E	0.95	1.05	0.037	0.041
b	0.12	0.22	0.005	0.008
b1	0.45	0.55	0.018	0.022
L	0.22	0.32	0.008	0.013
L1	0.22	0.32	0.008	0.013
e	Typ. 0.34		Typ. 0.013	
e1	Typ. 0.65		Typ. 0.026	

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