



BM05N06A

主要参数 MAIN CHARACTERISTICS

I_C	5A
V_{CEO}	60V
P_C	550mW

用途

- 静音开关
- 电池充电器
- 线性开关电源
- 电机驱动器

APPLICATIONS

- Switching and muting
- Battery charger
- Supply line switching circuits
- motor drivers

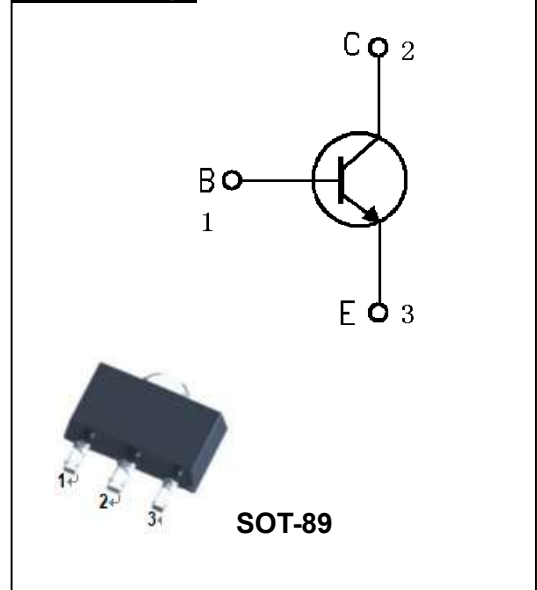
产品特性

- 硅外延
- 饱和压降低, 电流大
- 与 BM05P06A 互补
- 环保 (RoHS) 产品

FEATURES

- Epitaxial silicon
- Low $V_{CE(sat)}$, high current
- Complementary to BM05P06A
- RoHS product

封装 Package



订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen Free-Tube	有卤-编带 Halogen-Reel	无卤-编带 Halogen Free-Reel		
NA	N/A	N/A	BM05N06A-NB-AR	05N06	SOT-89



绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit	
集电极—基极直流电压	Collector- Base Voltage (I _E =0)	V _{CBO}	150	V
集电极—发射极直流电压	Collector- Emitter Voltage (I _B =0)	V _{CEO}	60	V
发射极—基极直流电压	Emitter-Base Voltage (I _C =0)	V _{EBO}	7	V
最大集电极直流电流	Collector Current (DC)	I _C	5	A
最大集电极耗散功率	Total Dissipation	P _C	550	mW
最高结温	Junction Temperature	T _j	150	°C
贮存温度	Storage Temperature	T _{stg}	-55~+150	°C

电特性 ELECTRICAL CHARACTERISTIC

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	最大值 Value(max)	单 位 Unit
BV _{CBO}	I _C =100 uA,	150		V
BV _{CES}	I _C =100 uA,	150		V
BV _{CEO}	I _C =10mA	60		V
BV _{EBO}	I _E =100uA, I _C =0	7		V
I _{CBO}	V _{CB} =120V, I _E =0		50	nA
I _{CES}	V _{CB} =120V, I _E =0		100	nA
I _{EBO}	V _{EB} =6V, I _C =0		10	nA
h _{FE} (1)	V _{CE} =1V, I _C =10mA	100		
h _{FE} (2)	V _{CE} =1V, I _C =2A	100	300	
h _{FE} (3)	V _{CE} =1V, I _C =5A	55		
h _{FE} (4)	V _{CE} =1V, I _C =10A	20		
V _{cesat1}	I _C =100mA, I _B =5mA		30	mV
V _{cesat2}	I _C =1A, I _B =100mA		55	mV
V _{cesat3}	I _C =1A, I _B =50mA		65	mV
V _{cesat4}	I _C =2A, I _B =50mA		125	mV
V _{cesat5}	I _C =6A, I _B =300mA	-	230	mV
V _{besat}	I _C =6A, I _B =300 mA		1.1	V
V _{beon}	V _{CE} =1V, I _C =6A		1.05	V

热特性 THERMAL CHARACTERISTIC

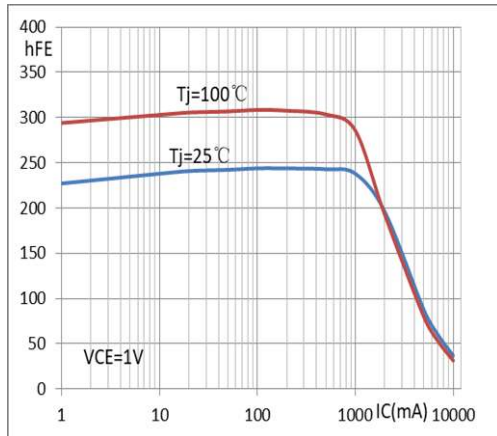
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 Thermal Resistance, Junction-to-Ambient	R _{th(j-a)}	-	225	°C/W
结到环境的热阻 (a) Thermal Resistance, Junction-to-Ambient	R _{th(j-a)}	-	83	°C/W

(a) For a device surface mounted on 25mm x 25mm x 1.6mm FR4 PCB with high coverage of single sided 35um copper, in still air conditions.

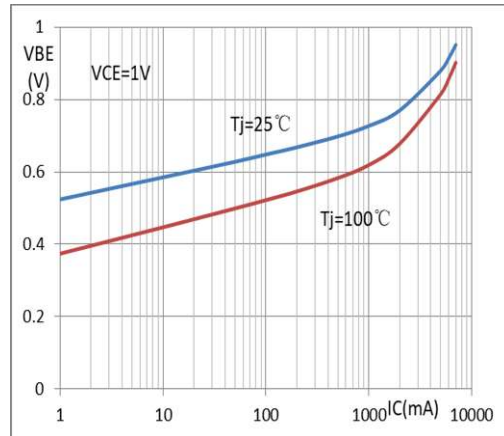


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

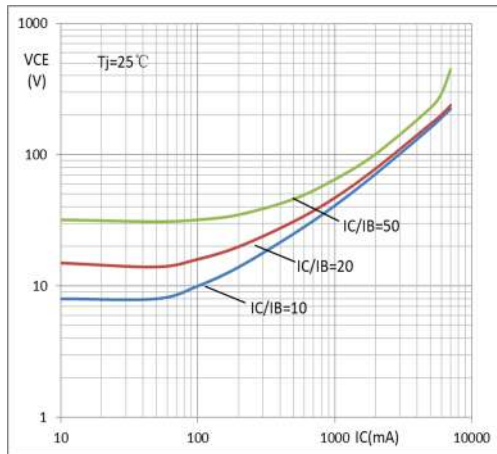
$hFE - I_C$



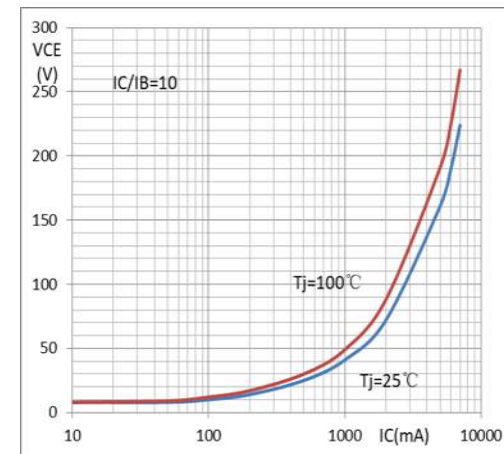
$V_{BEon} - I_C$



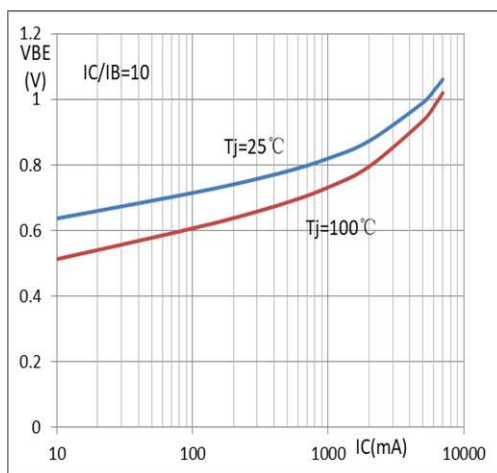
$V_{CE(sat)} - I_C$



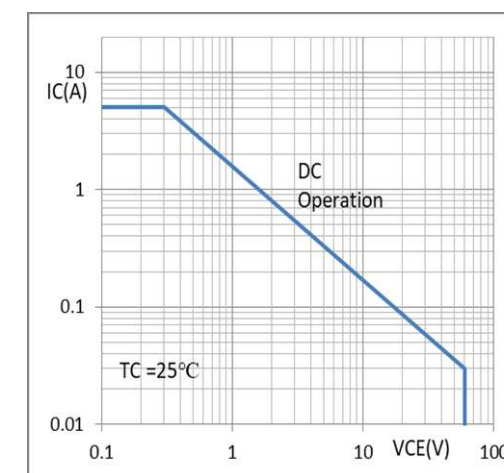
$V_{CE(sat)} - I_C$



$V_{BE(sat)} - I_C$



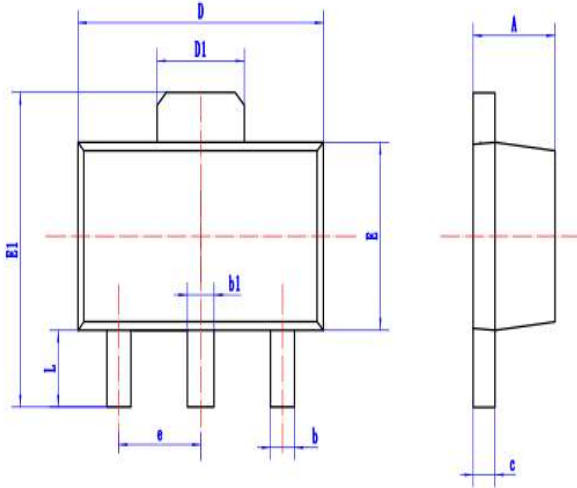
SOA





外形尺寸 PACKAGE MECHANICAL DATA
SOT-89

单位 Unit : mm



SYMBOL	MM	
	MIN	MAX
A	1.30	1.70
b	0.30	0.55
b1	0.35	0.65
c	0.30	0.50
D	4.30	4.70
D1	1.55 REF	
E	2.30	2.60
E1	3.90	4.30
e	1.50 TYP	
L	0.80	1.20



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