

BA3N05A

用途

- 音频温度补偿

APPLICATIONS

- Audio Temperature Compensation and General Purpose

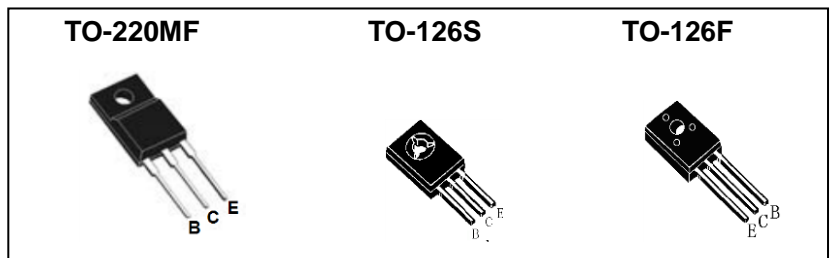
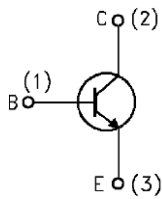
产品特性

- 低饱和压降: 0.5max @ 1A
- 高放大: 500min @ $V_{CE}=4V, I_C=0.5A$
- 硅外延三极管
- 环保 (RoHS) 产品

FEATURES

- Low V_{cesat} : 0.5max @ 1A
- High hFE : 500min @ $V_{CE}=4V, I_C=0.5A$
- Epitaxial Silicon Transistor
- 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-袋装 Halogen-Reel	无卤-袋装 Halogen Free-Reel		
BA3N05A -F2-B	N/A	BA3N05A -F2-C	N/A	BA3N05A	TO-220MF
BA3N05A -M1-B	N/A	BA3N05A -M1-C	N/A	BA3N05A	TO-126S
BA3N05A -MF-B	N/A	BA3N05A -MF-C	N/A	BA3N05A	TO-126F

绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^\circ\text{C}$ unless otherwise noted)

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}	80	V
集电极—发射极直流电压 Collector- Emitter Voltage ($I_B=0$)	V_{CEO}	50	V
发射极—基极直流电压 Emitter-Base Voltage	V_{EBO}	6	V
最大集电极直流电流 Collector Current (DC)	I_C	3	A
最大基极电流 Base Current	I_B	1	A
最大集电极耗散功率 Collector Dissipation($T_c=25^\circ\text{C}$)	P_C	25	W
最高结温 Junction Temperature	T_j	150	$^\circ\text{C}$
贮存温度 Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

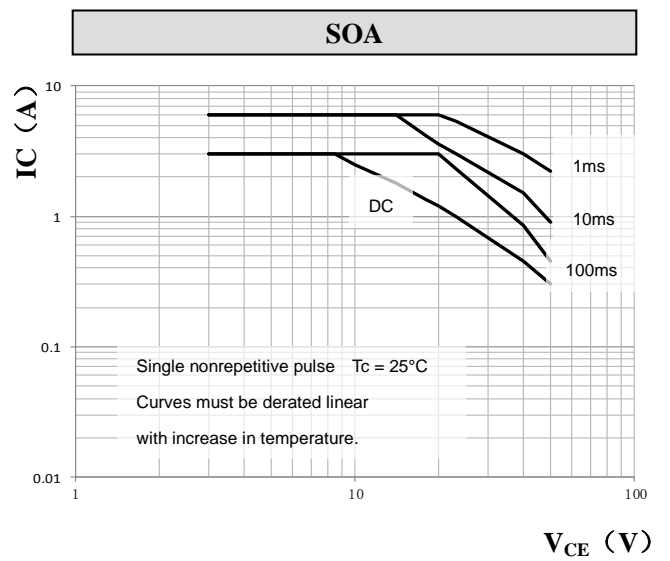
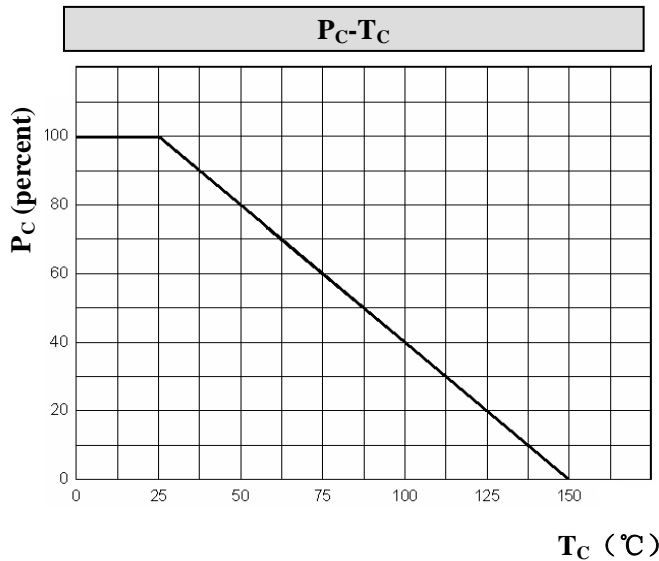
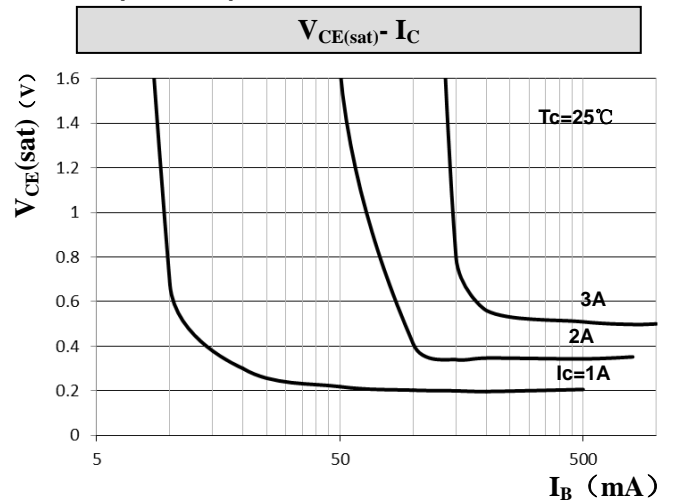
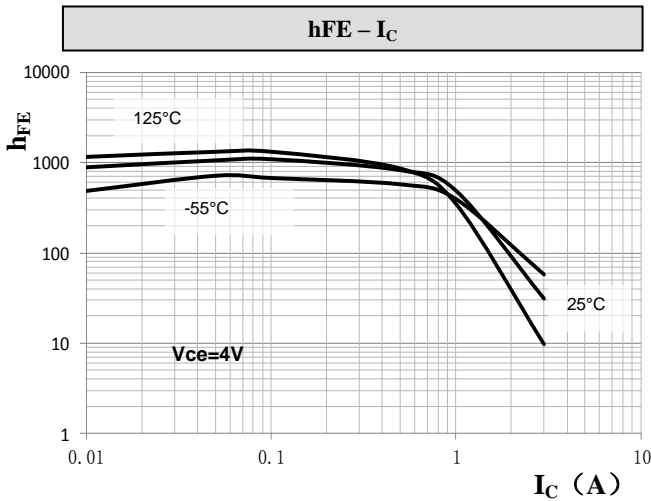
热特性 THERMAL CHARACTERISTIC

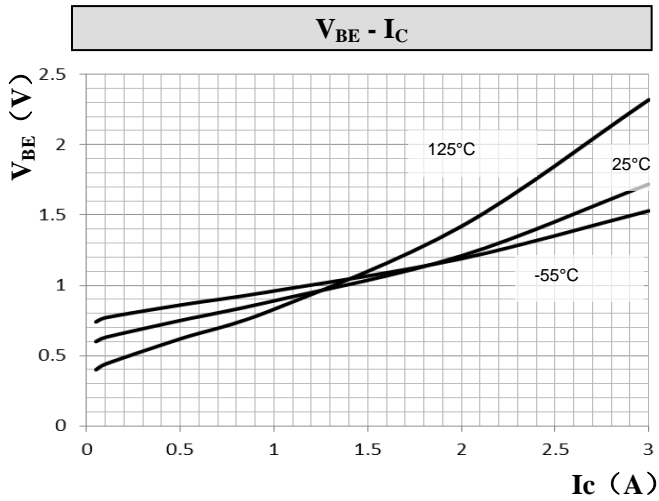
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case	R _{th(j-c)}	-	5.0	°C/W

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
I _{CBO}	V _{CB} =80V	-	10	μA
I _{EBO}	V _{EB} =6V	-	10	μA
V _{(BR)CEO}	I _C =25mA	50	-	V
hFE	V _{CE} =4V, I _C =0.5A	500	-	-
V _{CE(sat)}	I _C =1.0A, I _B =0.02A	-	0.5	V
f _T	V _{CE} =12V, I _E =-0.1A, f=1MHz	30	-	MHz
C _{ob}	V _{CB} =10V, f=1MHz	30typ		pF

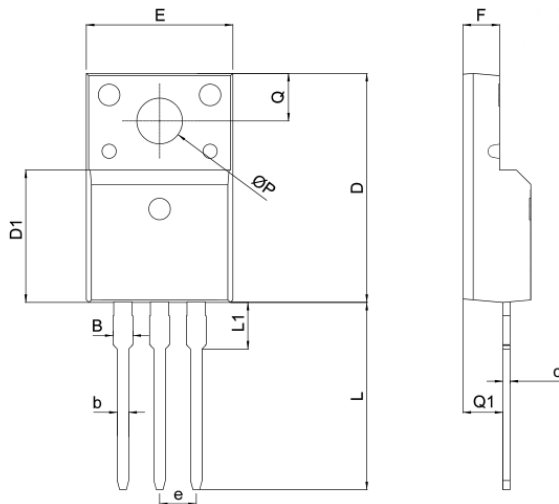
特征曲线 ELECTRICAL CHARACTERISTICS (curves)





外形尺寸 **PACKAGE MECHANICAL DATA**
TO-220MF

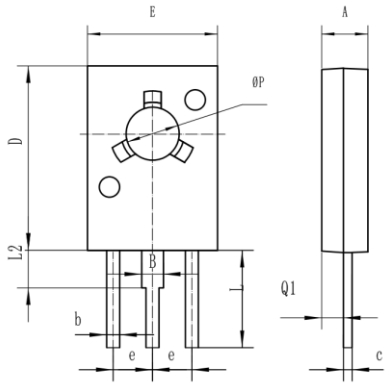
单位 Unit : mm



符号	尺寸 (mm)
A	4.50-4.90
B	--1.47
b	0.70-0.90
c	0.45-0.60
D	15.67-16.07
D1	9.04-9.20
E	9.96-10.36
e	2.54
F	2.34-2.74
L	12.58-13.38
L1	3.13-3.33
P	3.08-3.28
Q	3.20-3.40
Q1	2.56-2.96

TO-126S

单位 Unit : mm

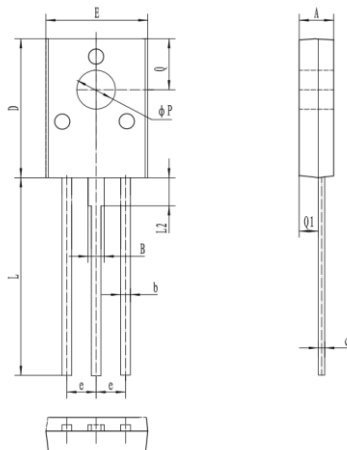


符号	尺寸 (mm)
A	2.50-2.90
B	1.22-1.47
b	0.60-0.90
c	0.30-0.70
D	10.50-11.10
E	7.10-8.10
e	2.19-2.39
L	5.30-6.00
L2	2.05-2.35
P	2.95-3.25
Q1	1.07-1.47

外形尺寸 PACKAGE MECHANICAL DATA

TO-126F

单位 Unit : mm



符号	尺寸 (mm)
A	3.10-3.30
B	1.22-1.47
b	0.60-0.90
c	0.45-0.70
D	10.50-11.20
E	7.50-8.50
e	2.29
L	15.00-16.00
L2	2.10-2.30
Q	3.60-4.00
Q1	1.80-2.20
P	2.95-3.15

注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知。

NOTE

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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