



**晶体管**  
**TRANSISTOR**  
**KSP2222A**

**主要参数 MAIN CHARACTERISTICS**

I <sub>c</sub>	500mA
V <sub>CEO</sub>	27V
V <sub>CB0</sub>	42V
P <sub>c</sub>	625mW

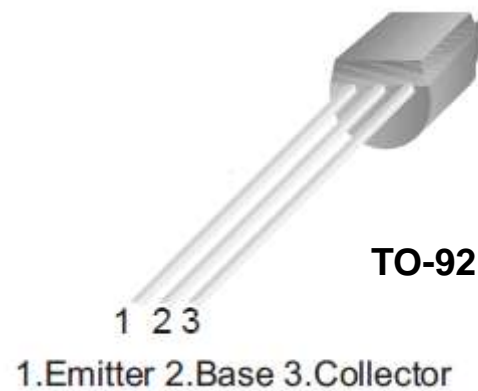
**产品特性 FEATURES**

硅外延	Epitaxial silicon
高开关速度	High switching speed
RoHS 产品	RoHS product

**用途 APPLICATIONS**

高频开关电源	High frequency switch power supply
一般功率放大电路	Commonly power amplifier circuit
高频功率变换	High frequency power transform

**封装形式 Package**



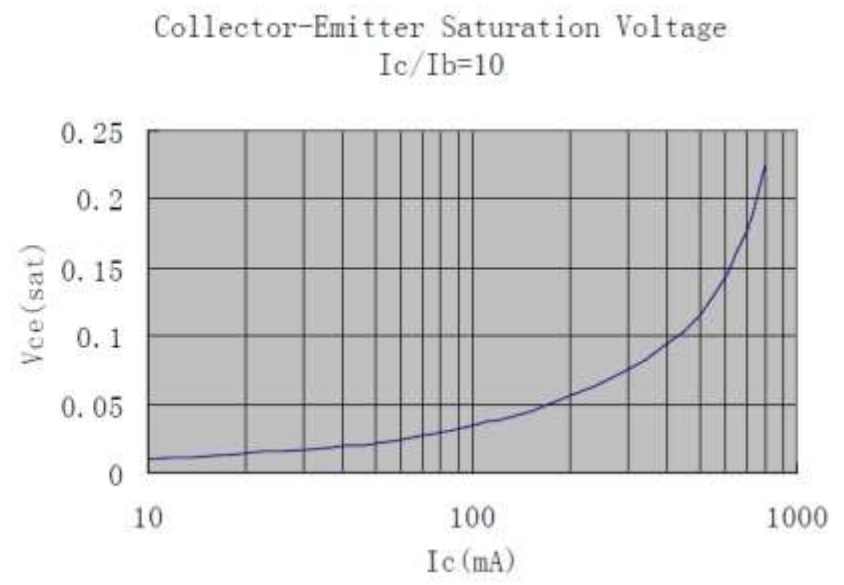
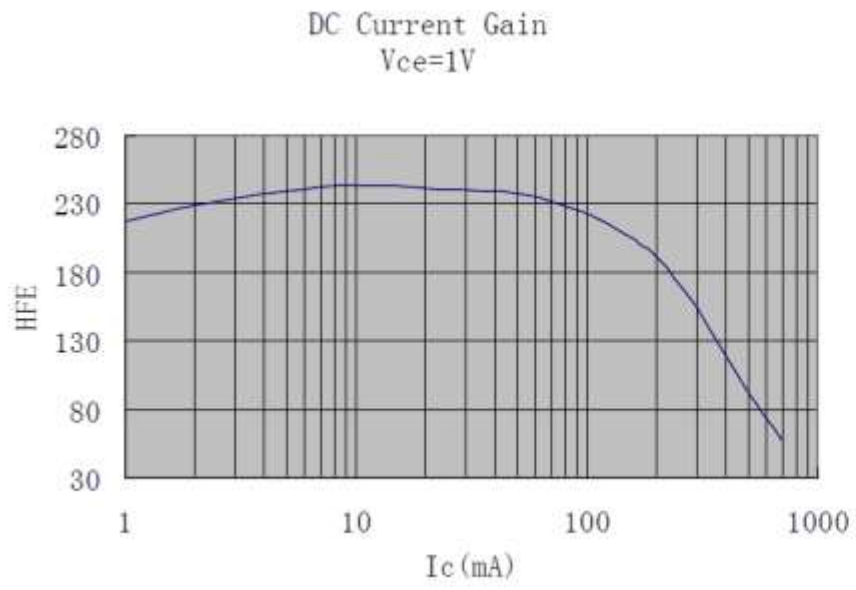
**绝对最大额定值 ABSOLUTE RATINGS (T<sub>c</sub>=25°C)**

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 <sub>E</sub> =0)	V <sub>CB0</sub>	42	V
集电极—发射极直流电压 Collector- Emitter Voltage ( I <sub>B</sub> =0)	V <sub>CEO</sub>	27	V
发射极—基极直流电压 Emitter-Base Voltage ( I <sub>C</sub> =0)	V <sub>EBO</sub>	6	V
最大集电极直流电流 Collector Current ( DC)	I <sub>c</sub>	500	mA
最大集电极耗散功率 Total Dissipation (TO-92)	P <sub>c</sub>	625	mW
最高结温 Junction Temperature	T <sub>j</sub>	150	°C
贮存温度 Storage Temperature	T <sub>stg</sub>	-55~+150	°C

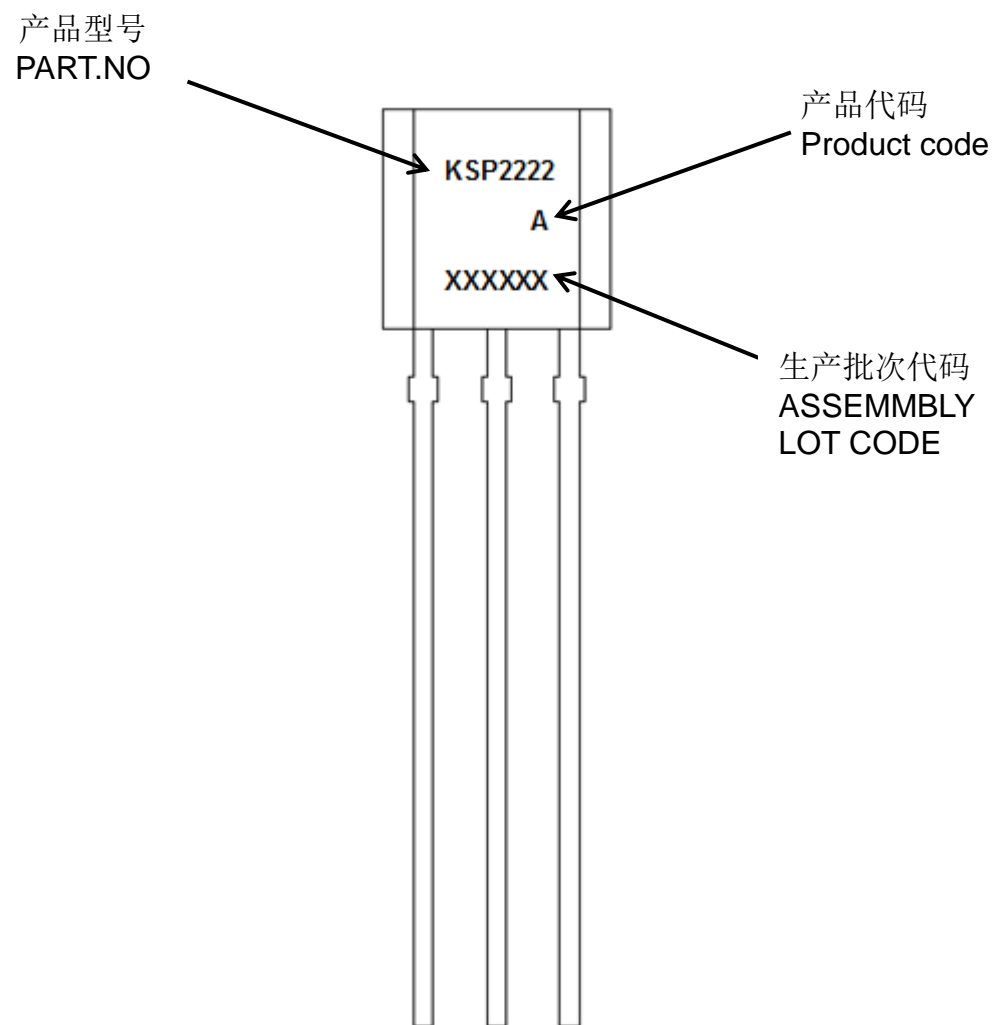
## 电特性 ELECTRICAL CHARACTERISTICS

项目 Parameter	测试条件 Tests conditions	最小值 (min)	典型值 (typ)	最大值 (max)	单位 Unit
V(BR) <sub>CBO</sub>	I <sub>C</sub> =100uA, I <sub>E</sub> =0	42	-	-	V
V(BR) <sub>CEO</sub>	I <sub>C</sub> =2mA, I <sub>B</sub> =0	27	-	-	V
V(BR) <sub>EBO</sub>	I <sub>E</sub> =100uA, I <sub>C</sub> =0	6	-	-	V
I <sub>CBO</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0	-	-	100	nA
I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	-	-	100	nA
H <sub>fe</sub> (1)	V <sub>CE</sub> =1V, I <sub>C</sub> =50mA	120	-	300	-
H <sub>fe</sub> (2)	V <sub>CE</sub> =1V, I <sub>C</sub> =500mA	40	-	-	-
V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA	-	-	0.6	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA	-	-	1.2	V
f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =50mA	100	-	-	MHz

## 典型特性曲线 Electrical Characteristics

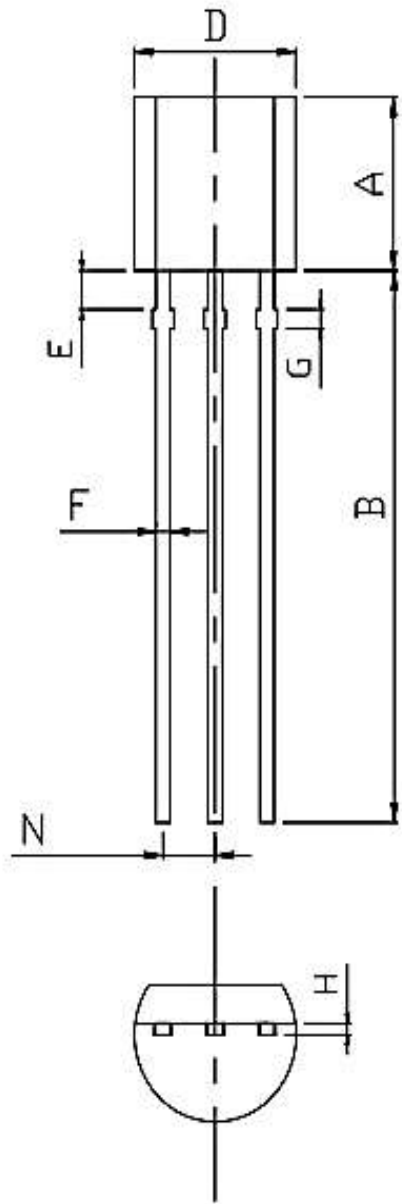


## 印记 Marking:



外形尺寸: Package Dimension

T0-92



DIM	MILLIMETERS
A	4.55+0.20
B	14.50±0.30
C	3.54±0.20
D	4.56±0.20
E	1.30±0.20
F	0.46±0.20
G	0.50±0.10
H	0.32±0.10
N	1.30±0.20
P	2.52±0.20

Unit : (mm)