



晶体管  
TRANSISTOR  
C9012B

主要参数 MAIN CHARACTERISTICS

I <sub>C</sub>	-500mA
V <sub>CEO</sub>	- 20V
P <sub>C</sub>	625mW

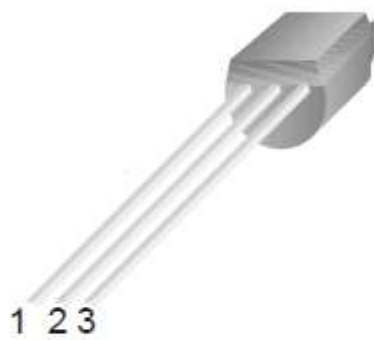
产品特性 FEATURES

硅外延	Epitaxial silicon
高开关速度	High switching speed
与 C9013B 互补	Complementary to C9013B
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



TO-92

1. Emitter 2. Base 3. Collector

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>	-40	V
集电极—发射极直流电压 Collector- Emitter Voltage ( I <sub>B</sub> =0)	V <sub>CEO</sub>	-20	V
发射极—基极直流电压 Emitter-Base Voltage ( I <sub>C</sub> =0)	V <sub>EB0</sub>	-5	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

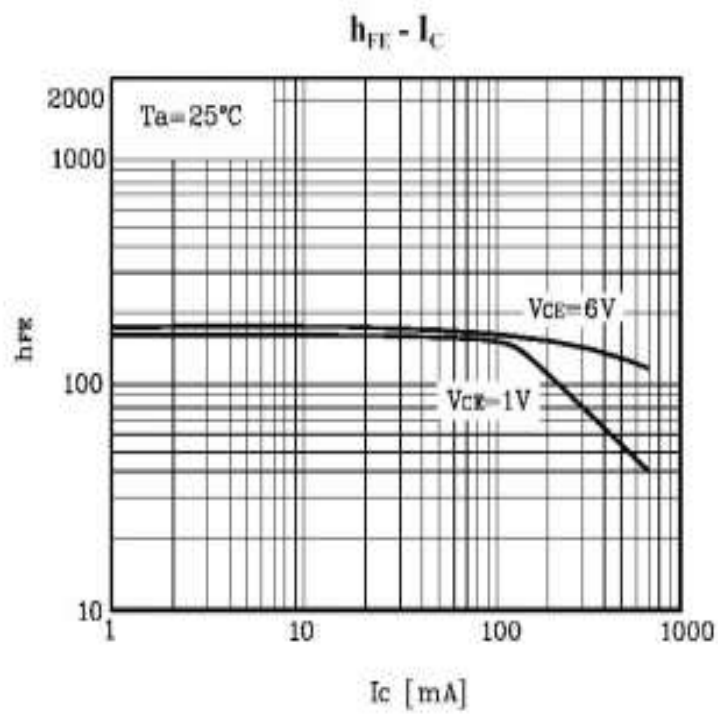
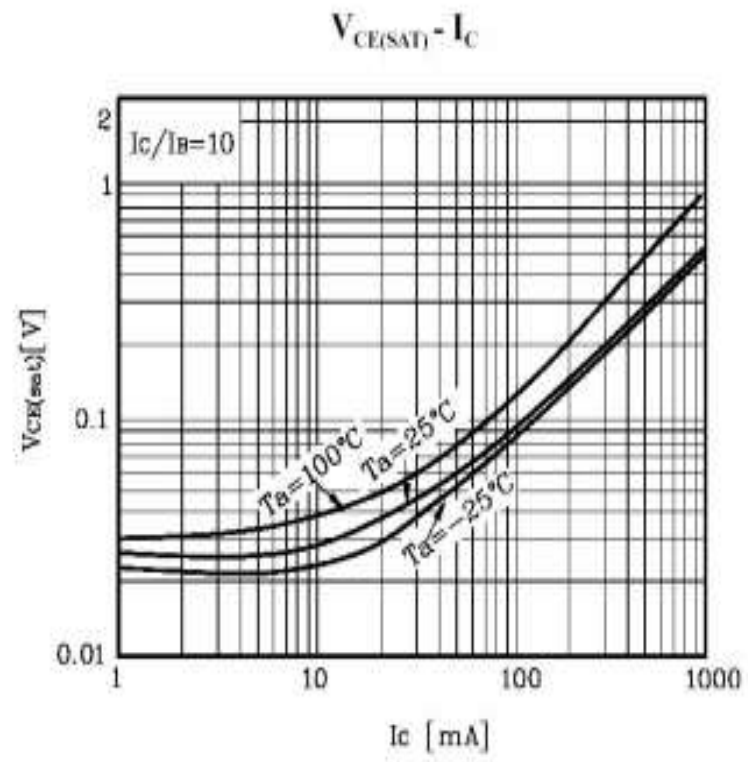
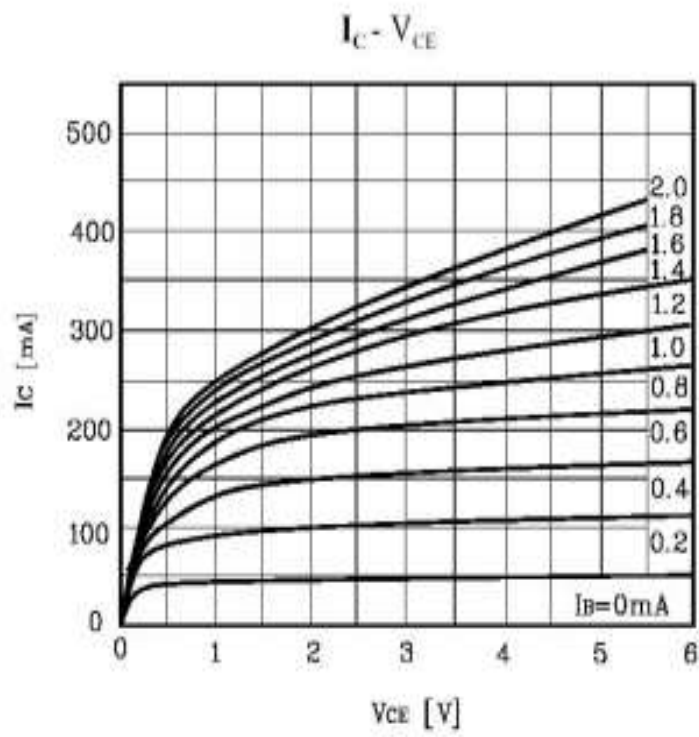
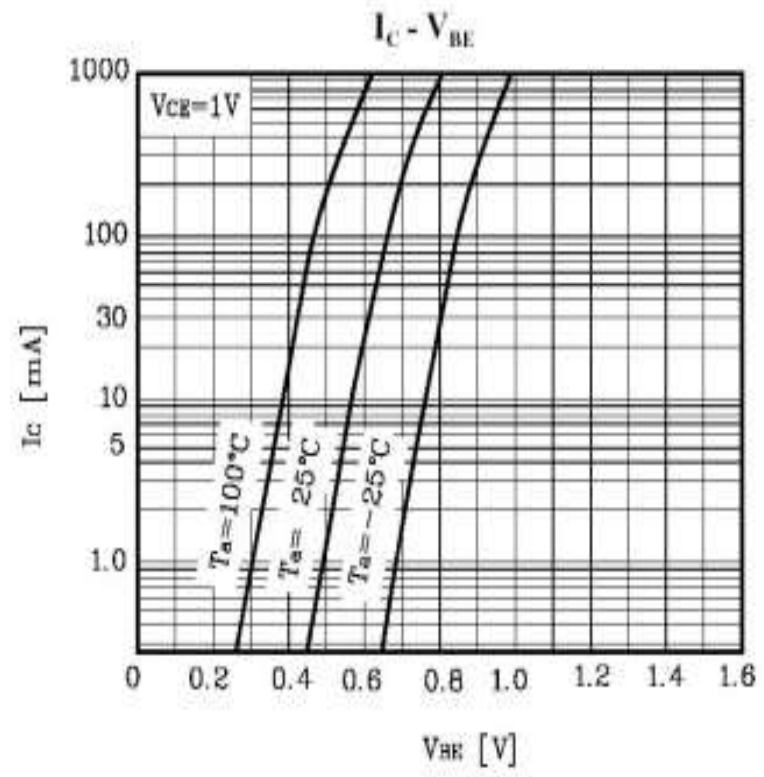
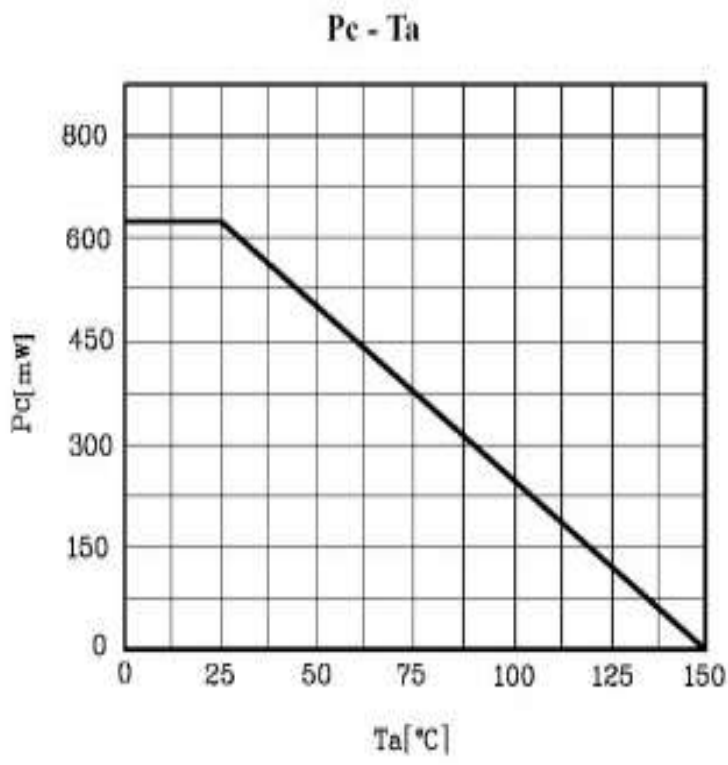
## 电特性 ELECTRICAL CHARACTERISTICS

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> =-100μA, I <sub>E</sub> =0	-40	-	-	V
V(BR) <sub>CEO</sub>	I <sub>C</sub> =-1mA, I <sub>B</sub> =0	-20	-	-	V
V(BR) <sub>EBO</sub>	I <sub>E</sub> =-100μA, I <sub>C</sub> =0	-5	-	-	V
I <sub>CBO</sub>	V <sub>CB</sub> =-25V, I <sub>E</sub> =0	-	-	-0.1	μA
I <sub>EBO</sub>	V <sub>EB</sub> =-3V, I <sub>C</sub> =0	-	-	-0.1	μA
H <sub>fe</sub> (1)	V <sub>CE</sub> =-1V, I <sub>C</sub> =-50mA	64	-	276	-
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	-	-0.18	-0.6	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =-500mA, I <sub>B</sub> =-50mA	-	-0.95	-1.2	V

## 放大倍数 HFE Classifications

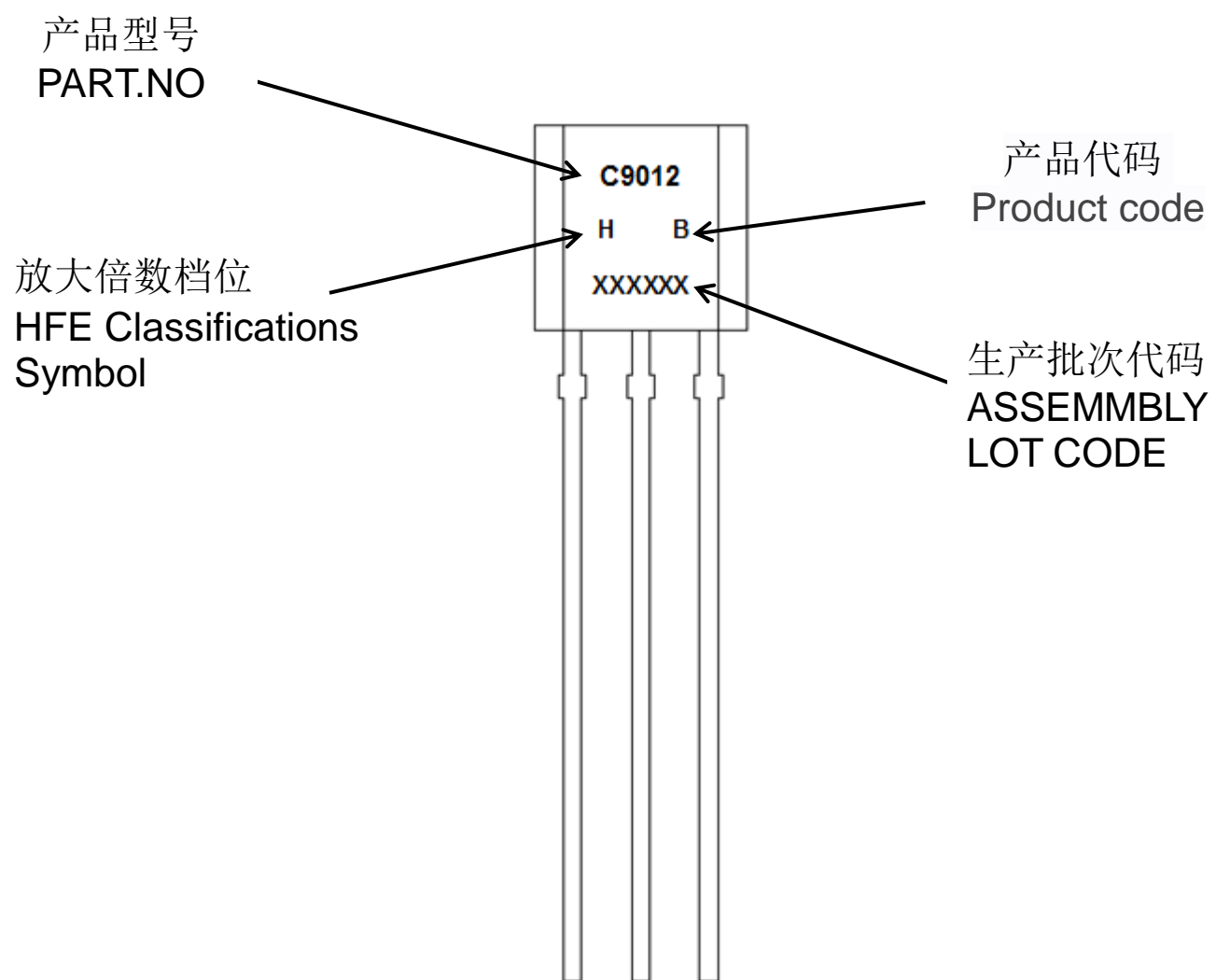
HFE Classifications	D	E	F	G	H	I
HFE Range	64-91	78-112	96-135	112-166	144-202	188-276

典型特性曲线 Electrical Characteristics

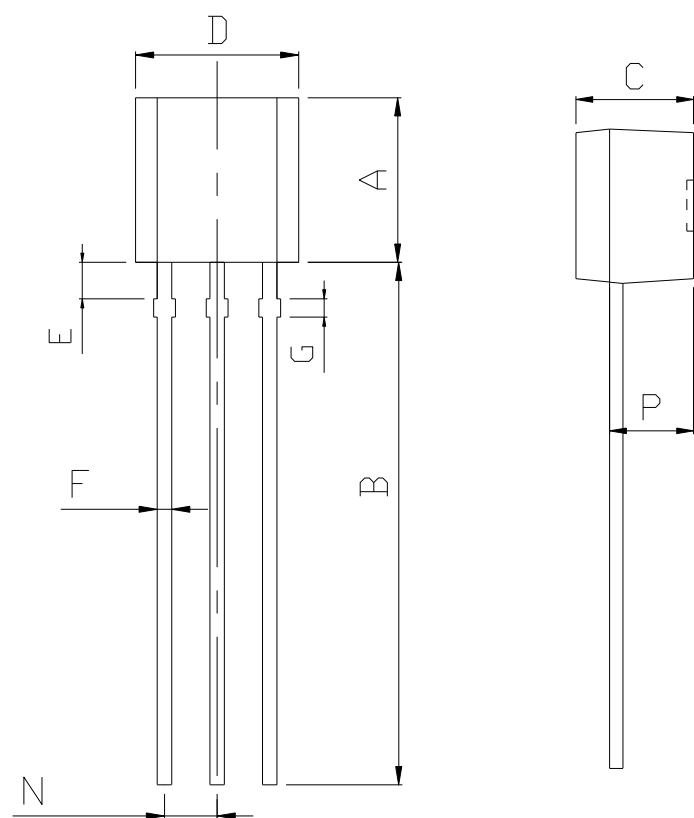


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印记 **Marking:**



外形尺寸: Package Dimension:



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

(Units: mm)

