



晶体管
TRANSISTOR
2N5401

主要参数 MAIN CHARACTERISTICS

I _c	-600mA
V _{CEO}	-160V
P _c	625mW

产品特性 FEATURES

硅外延	Epitaxial silicon
高开关速度	High switching speed
与 2N5551 互补	Complementary to 2N5551
RoHS 产品	RoHS product

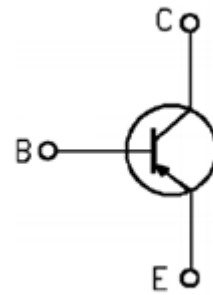
用途 APPLICATIONS

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



绝对最大额定值 ABSOLUTE RATINGS (T_c=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 _{CB0}	-180	V
集电极—发射极直流电压 Collector- Emitter Voltage (I _B =0)	V _{CEO}	-160	V
发射极—基极直流电压 Emitter-Base Voltage (I _C =0)	V _{EB0}	-6.0	V
最大集电极直流电流 Collector Current (DC)	I _c	-600	mA
最大集电极耗散功率 Total Dissipation (TO-92)	P _c	625	mW
最高结温 Junction Temperature	T _j	150	°C
贮存温度 Storage Temperature	T _{stg}	-55~+150	°C

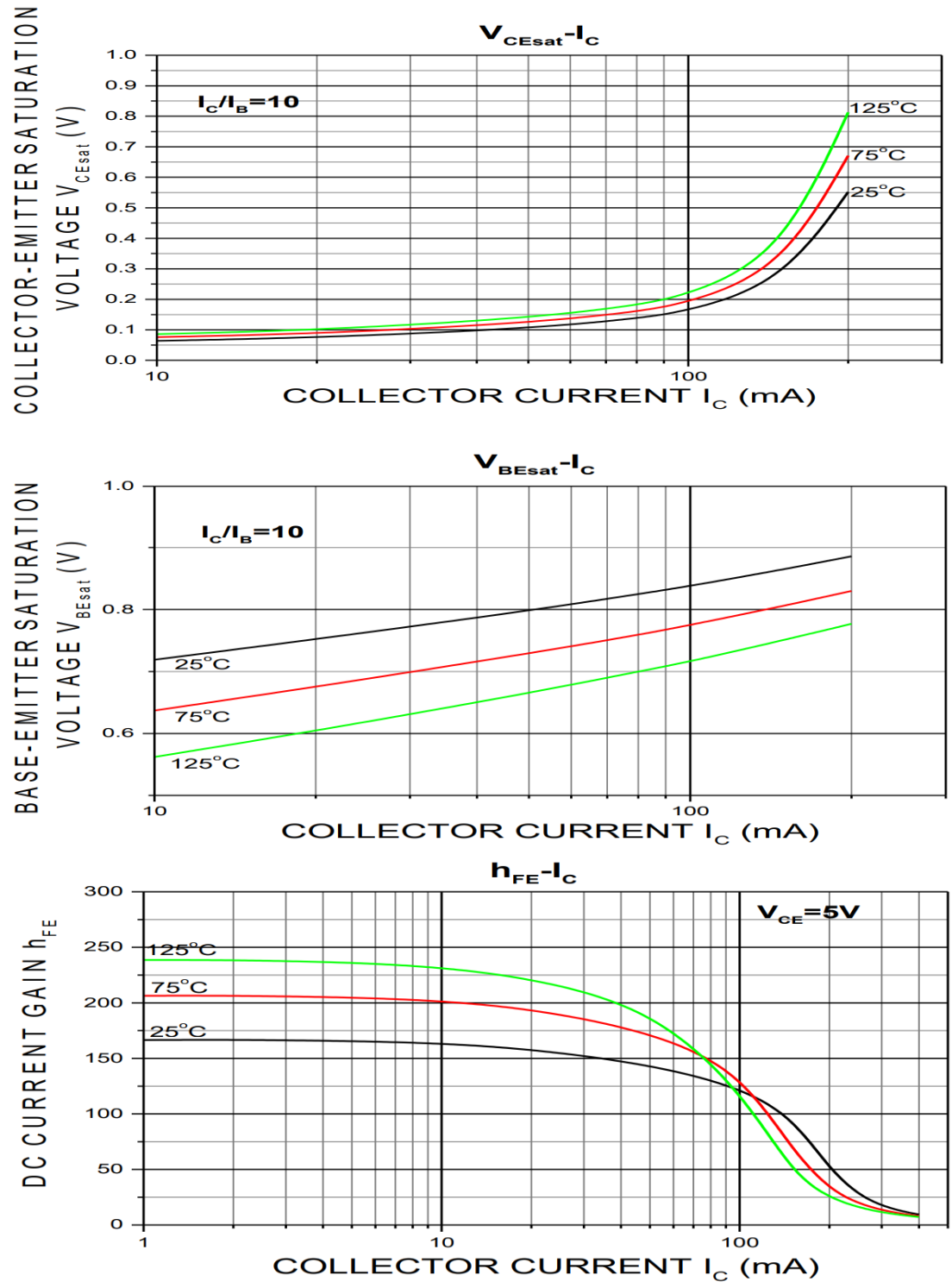
电特性 ELECTRICAL CHARACTERISTICS

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) _{CBO}	I _C =-10μA, I _E =0	-180	-	-	V
V(BR) _{CEO}	I _C =-1.0mA, I _B =0	-160	-	-	V
V(BR) _{EBO}	I _E =-10μA, I _C =0	-6.0	-	-	V
I _{CBO}	V _{CB} =-180V, I _E =0	-	-	-0.1	μA
I _{EBO}	V _{BE} =-6V, I _C =0	-	-	-0.1	μA
h _{FE} (1)	V _{CE} =-5V, I _C =-10mA	100	-	300	-
h _{FE} (2)	V _{CE} =-5V, I _C =-50mA	20	-	-	-
h _{FE} (3)	V _{CE} =-5V, I _C =-1.0mA	40	-	-	-
V _{CE(sat)}	I _C =-10mA, I _B =-1.0mA	-	-0.12	-0.4	V
V _{CE(sat)}	I _C =-50mA, I _B =-5.0mA	-	-0.5	-0.8	V
V _{BE(sat)}	I _C =-10mA, I _B =-1.0mA	-	-0.75	-1.0	V
V _{BE(sat)}	I _C =-50mA, I _B =-5.0mA	-	-0.8	-1.0	V
f _T	V _{CE} =-10V, I _C =-10mA	50	80	-	MHz

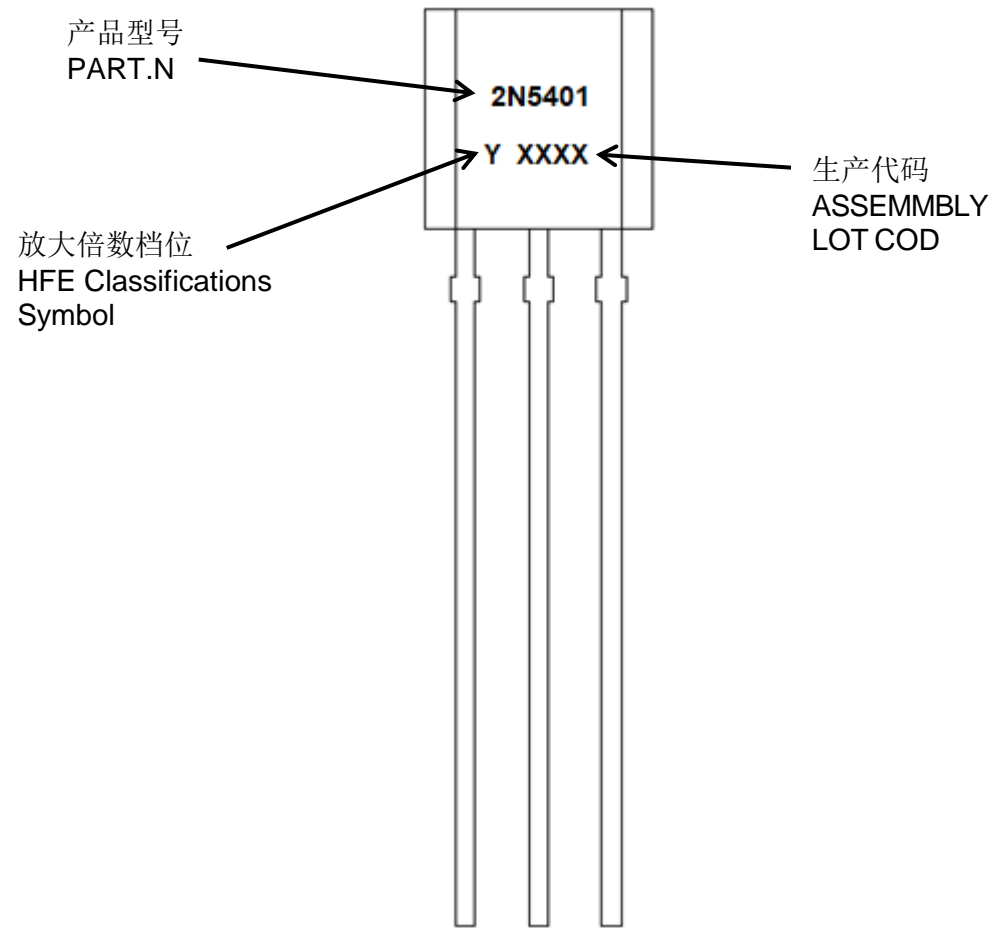
放大倍数 h_{FE} Classifications

h _{FE} Classifications Symbol	Y1	Y2
h _{FE} Range	100-200	200-300

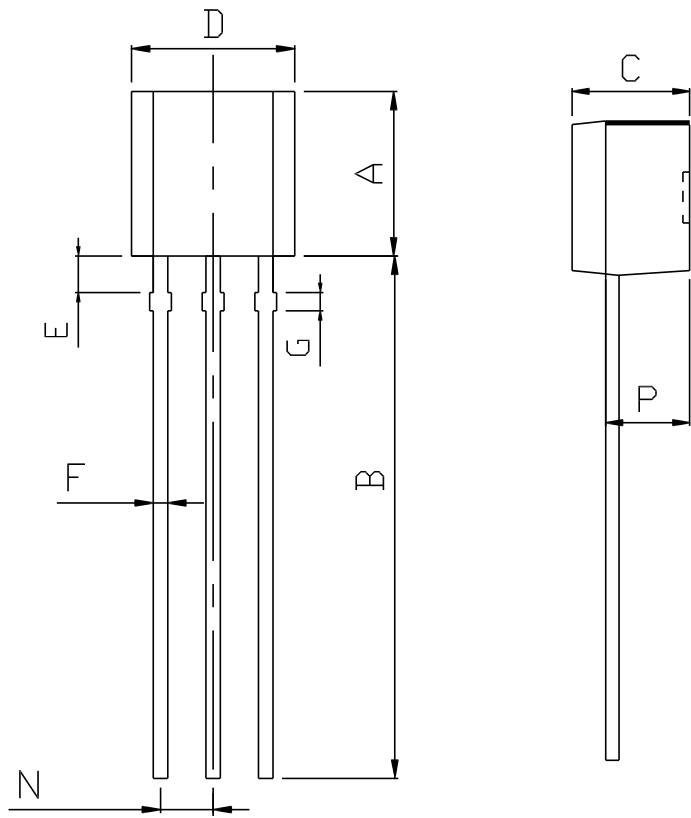
典型特性曲线 Electrical Characteristics



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)

