



晶体管 TRANSISTOR J13007-1A

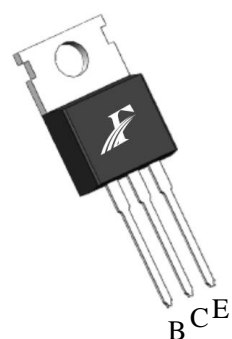
主要参数 MAIN CHARACTERISTICS

I_c	8A
V_{CB0}	700V
V_{CE0}	400V
P_c	80W

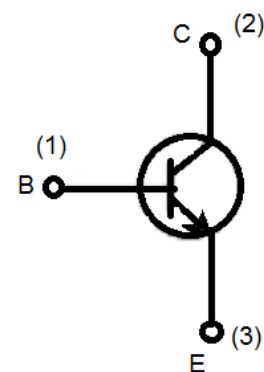
用途 APPLICATIONS

节能灯	Energy-saving light
电子镇流器	Electronic ballasts
高频开关电源	High frequency switching power supply
高频功率变换	High frequency power transform
一般功率放大电路	Commonly power amplifier circuit

封装形式 Package



TO-220



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

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}	700	V
集电极—发射极直流电压 Collector- Emitter Voltage ($I_B=0$)	V_{CE0}	400	V
发射极—基极直流电压 Emitter-Base Voltage ($I_C=0$)	V_{EB0}	9	V
最大集电极直流电流 Collector Current (DC)	I_c	8	A
最大集电极耗散功率 Total Dissipation (TO-92)	P_c	80	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 Symbol	最小值 (min)	最大值 (max)	单位 Unit
结到环境的热阻 Thermal Resistance Junction Ambient	$R_{th(j-a)}$	-	125	$^\circ\text{C/W}$

电特性 ELECTRICAL CHARACTERISTICS

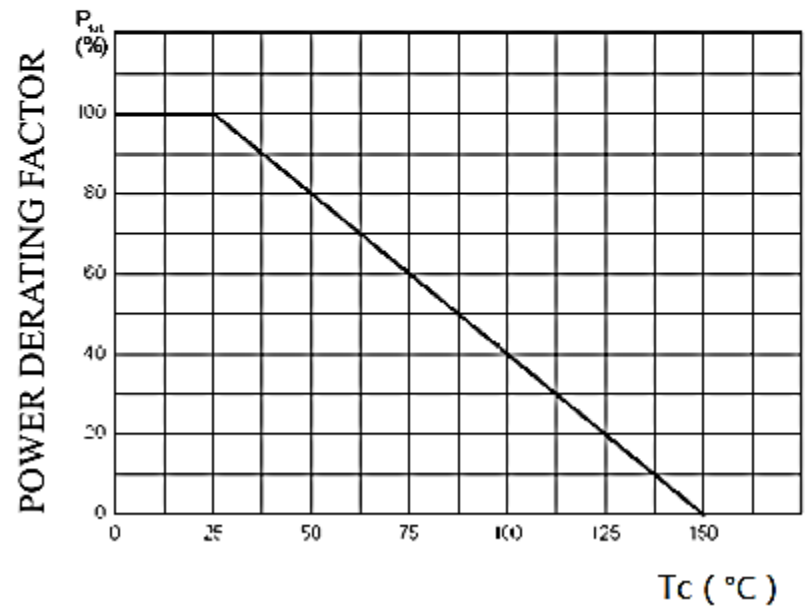
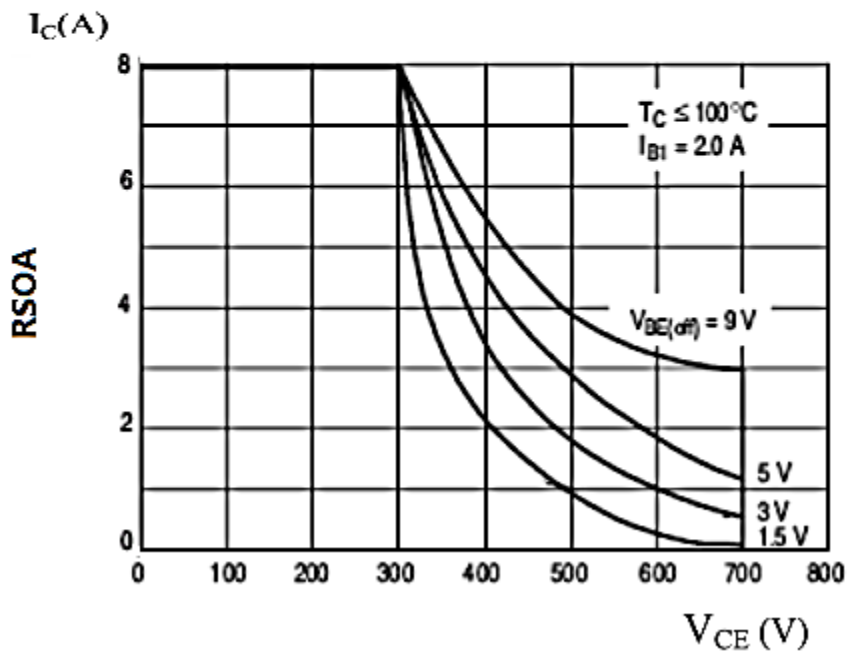
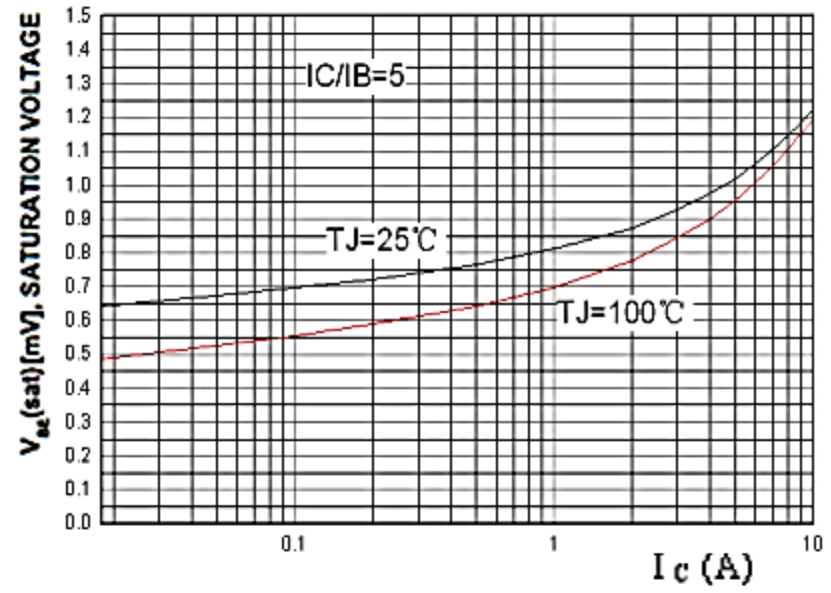
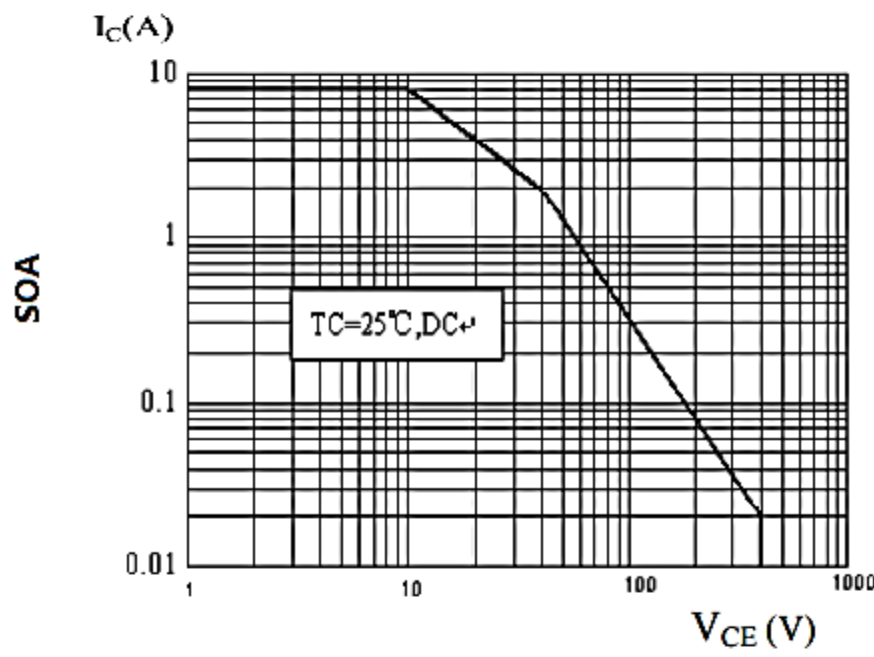
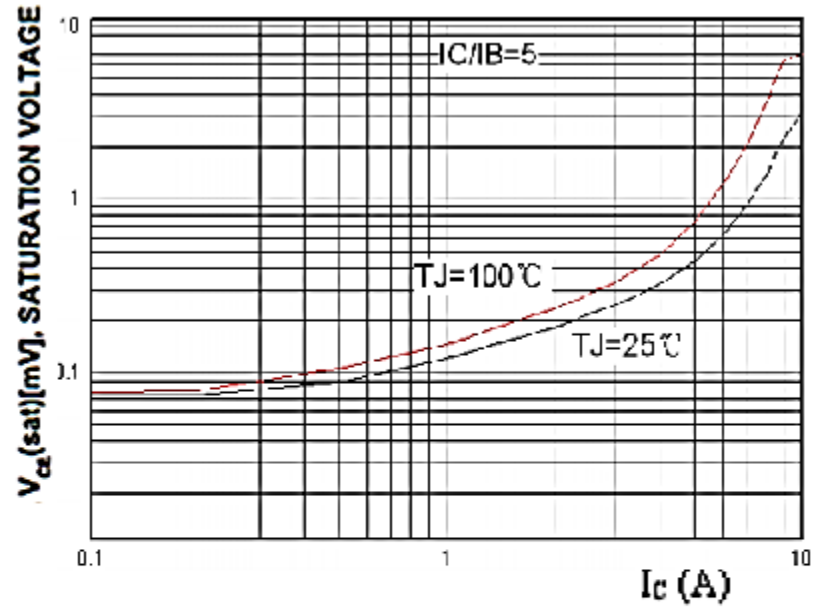
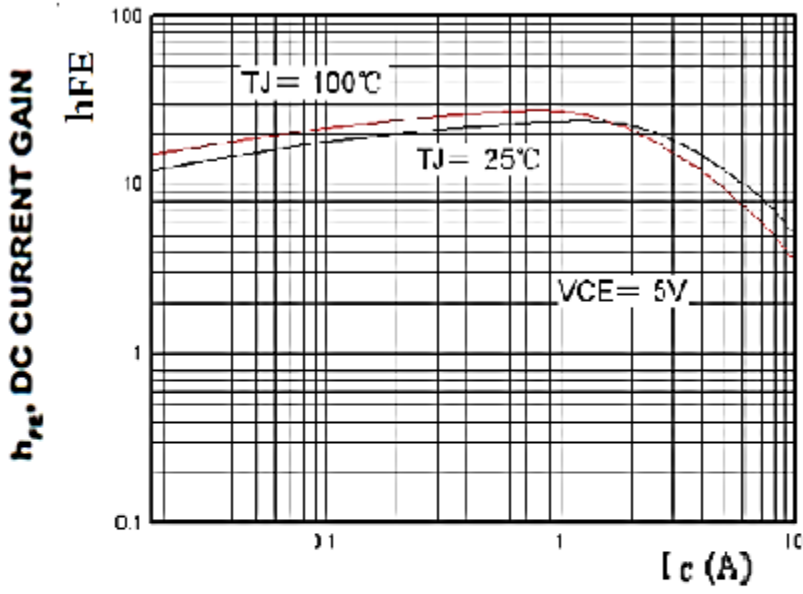
项目 Parameter	测试条件 Tests conditions	最小值 (min)	典型值 (typ)	最大值 (max)	单位 Unit
V(BR) _{CBO}	IC=100uA, IE=0	700	-	-	V
V(BR) _{CEO}	IC=10mA, IB=0	400		-	V
V(BR) _{EBO}	IE=1mA, IC=0	9	-	-	V
ICEO	VCE=400V, IE=0	-	-	10	uA
IEBO	VEB=9V, IC=0	-	-	1	uA
ICBO	VCB=700V, IE=0			1	uA
hFE(1)	VCE =5V, IC=2A	15	-	35	
hFE(2)	VCE =5V, IC=5A	5	-	-	
VCE(sat)	IC=5A, IB=1A	-	-	1.0	V
ts	IC=0.5A	2		6	us
f _T	VCE=10V, Ic=0.5A	4			MHz

放大倍数h_{FE} Classifications

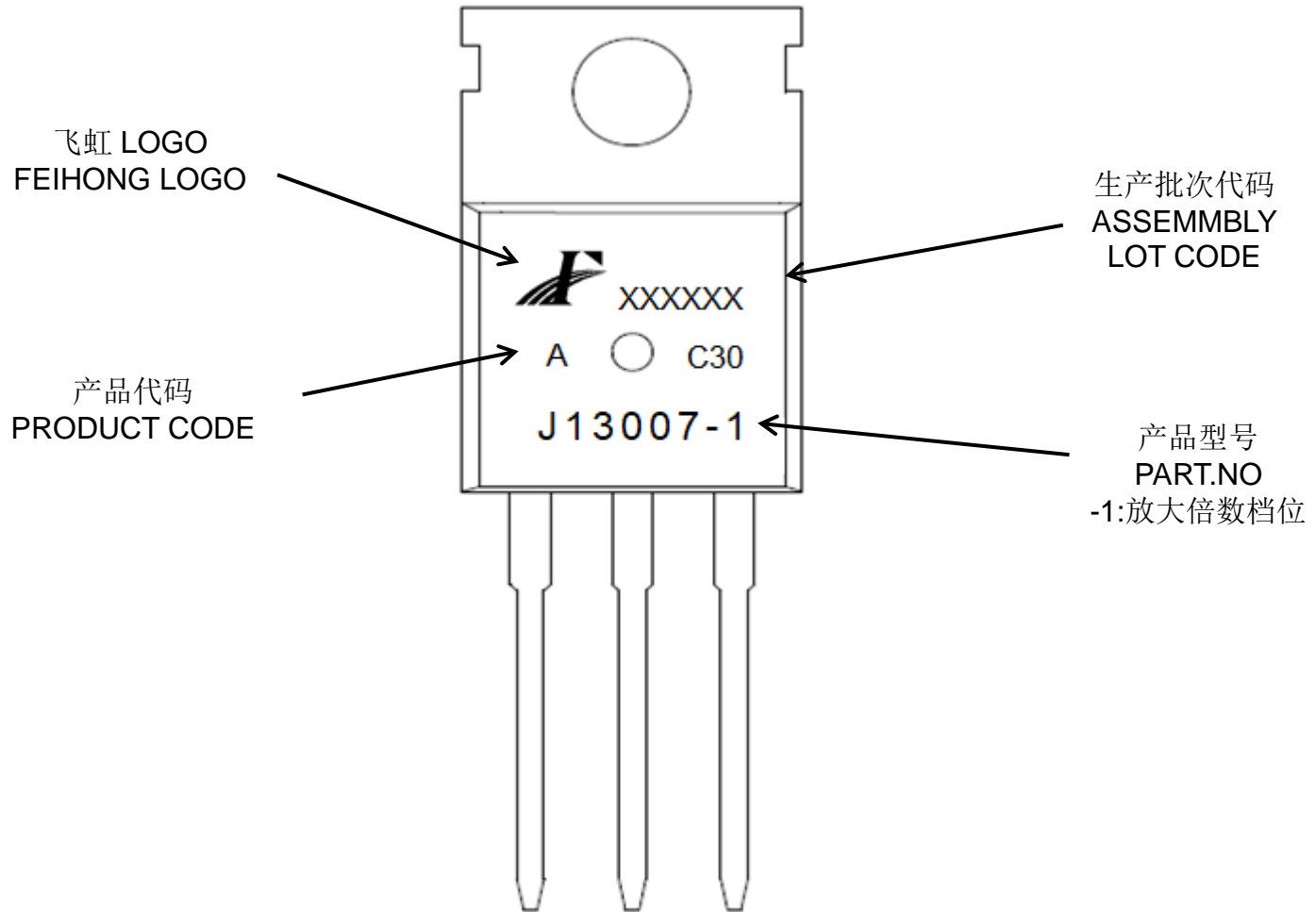
Classifications	H1	H2
h _{FE} (1)	15-25	25-35

特性曲线

Typical Performance Characteristics



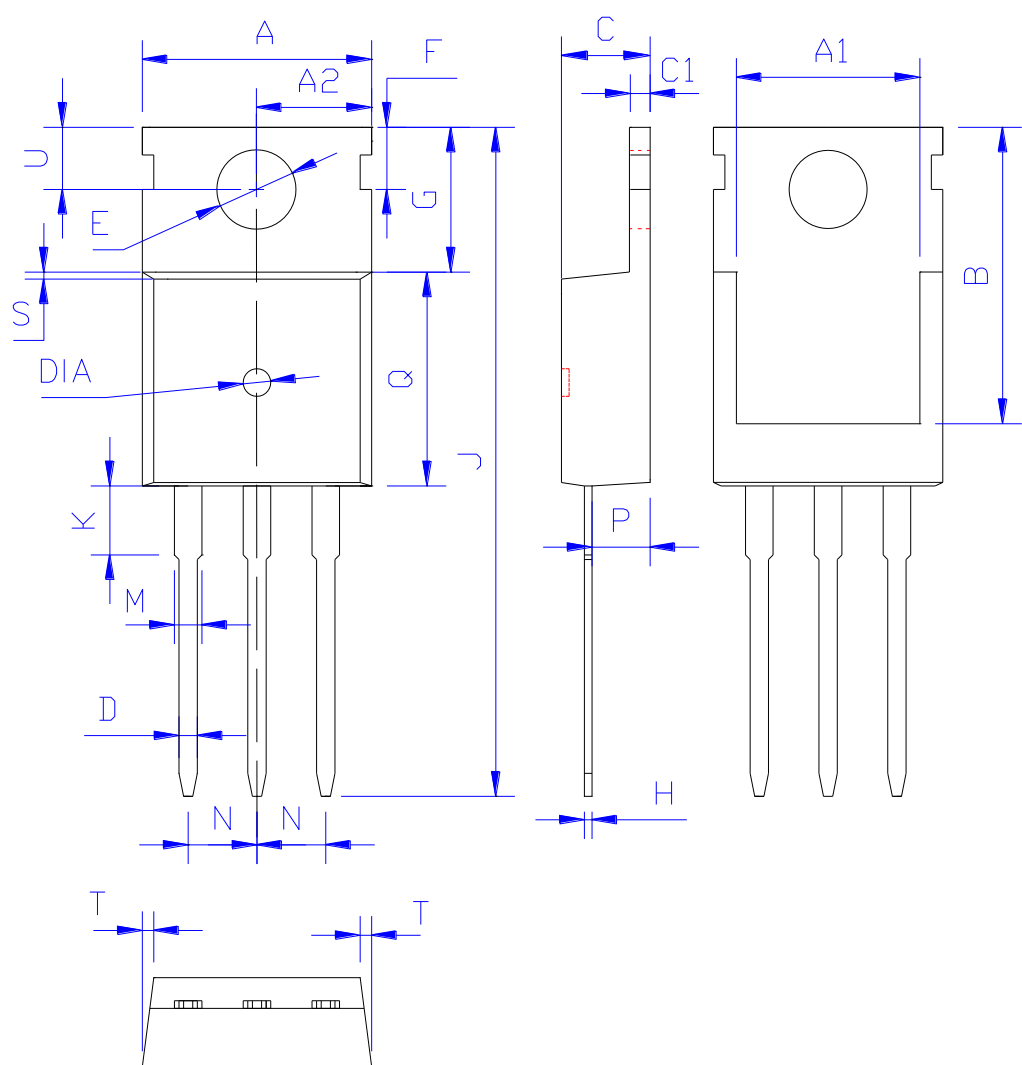
印记 Marking:



外形尺寸:

Package Dimension:

TO-220



DIM	MILLIMETERS
A	10.00±0.30
A1	8.00±0.30
A2	5.00±0.30
B	13.20±0.40
C	4.50±0.20
C1	1.30±0.20
D	0.80±0.20
E	3.60±0.20
F	3.00±0.30
G	6.60±0.40
H	0.50±0.20
J	28.88±0.50
K	3.00±0.30
M	1.30±0.30
N	Typical 2.54
P	2.40±0.40
Q	9.20±0.40
S	0.25±0.15
T	0.25±0.15
U	2.80±0.30
DIA	寬 1.50±0.10 深 0.50 MAX

(Units: mm)