



3DD4203D

主要参数 MAIN CHARACTERISTICS

I_c	2.0A
I_{cm}	4.0A
V_{CEO}	400V
$P_c(TO-92)$	1W
$P_c(IPAK)$	10W
$P_c(TO-126(S))$	20W
$P_c(TO-220)$	40W

用途

- 节能灯
- 电子镇流器
- 高频开关电源
- 高频功率变换
- 一般功率放大电路

产品特性

- 高耐压
- 高电流容量
- 高开关速度
- 高可靠性
- 环保 (RoHS) 产品

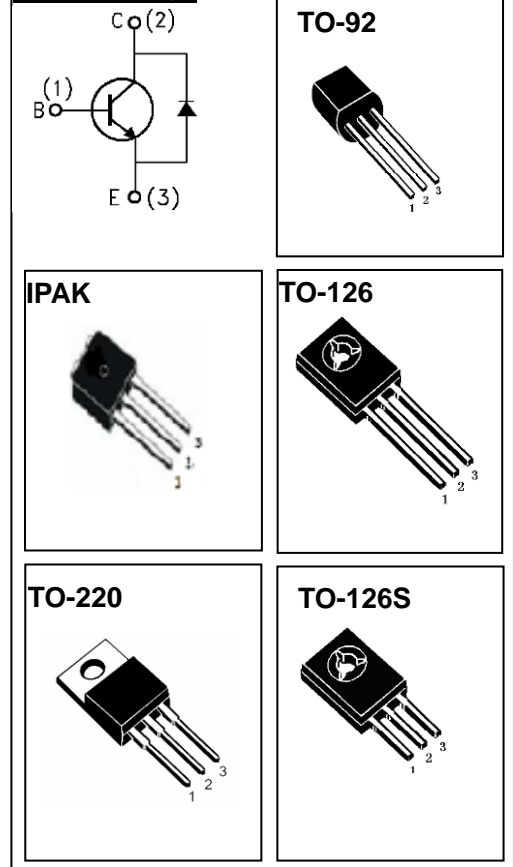
APPLICATIONS

- Energy-saving light
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

FEATURES

- High breakdown voltage
- High current capability
- High switching speed
- High reliability
- 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	有卤-条管	有卤-袋装	有卤-袋装		
Halogen-Tube	Halogen-Free-Tube	Halogen-Bag	Halogen-Free-Bag		
N/A	N/A	3DD4203D-T-C	3DD4203D-T-CR	4203D	TO-92
3DD4203D-V-B	3DD4203D-V-BR	3DD4203D-V-C	3DD4203D-V-CR	4203D	IPAK
3DD4203D-M-B	3DD4203D-M-BR	3DD4203D-M-C	3DD4203D-M-CR	4203D	TO-126
3DD4203D-M1-B	3DD4203D-M1-BR	3DD4203D-M1-C	3DD4203D-M1-CR	4203D	TO-126S
3DD4203D-CA-B	3DD4203D-CA-BR	3DD4203D-CA-C	3DD4203D-CA-CR	4203D	TO-220
有卤-编带	有卤-编带				封 装
Halogen-Reel	Halogen-Free-Reel			印 记 Markin	Package
3DD4203D-T-A	3DD4203D-T-AR			4203D	TO-92





绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—发射极直流电压 Collector- Emitter Voltage (V _{BE} =0)	V _{CES}	700	V
集电极—发射极直流电压 Collector- Emitter Voltage (I _B =0)	V _{CEO}	400	V
发射极—基极直流电压 Emitter-Base Voltage	V _{EBO}	9	V
最大集电极直流电流 Collector Current (DC)	I _C	2.0	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	4.0	A
最大集电极耗散功率 Total Dissipation (TO-92)	P _C	1	W
最大集电极耗散功率 Total Dissipation (IPAK)	P _C	10	W
最大集电极耗散功率 Total Dissipation (TO-126(S))	P _C	20	W
最大集电极耗散功率 Total Dissipation (TO-220)	P _C	40	W
最高结温 Junction Temperature	T _J	150	℃
贮存温度 Storage Temperature	T _{stg}	-55~+150	℃

电特性 ELECTRICAL CHARACTERISTIC

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
V(BR) _{CEO}	I _C =10mA, I _B =0	400	490	-	V
V(BR) _{CBO}	I _C =1mA, I _E =0	700	800	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	9	13	-	V
I _{CBO}	V _{CB} =680V, I _E =0	-	-	100	μA
I _{CEO}	V _{CE} =400V, I _B =0	-	-	50	μA
I _{EBO}	V _{EB} =7V, I _C =0	-	-	10	μA
hFE	V _{CE} =5V, I _C =5mA	6	16	40	-
	V _{CE} =10V, I _C =200mA	10	20	30	-
V _{CE(sat)}	I _C =0.5A, I _B =0.1A	-	0.18	0.8	V
V _{BE(sat)}	I _C =0.5A, I _B =0.1A	-	0.9	1.2	V
t _f	V _{CC} =24V I _C =2A, I _{B1} =-I _{B2} =0.4A	-	-	0.7	μS
t _s	V _{CC} =24V I _C =2A, I _{B1} =-I _{B2} =0.4A	-	-	4	μS
f _T	V _{CE} =10V, I _C =0.1A	4	-	-	MHz

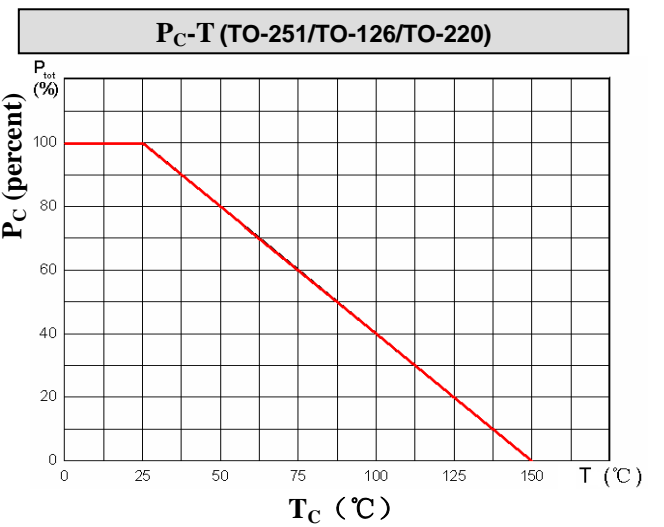
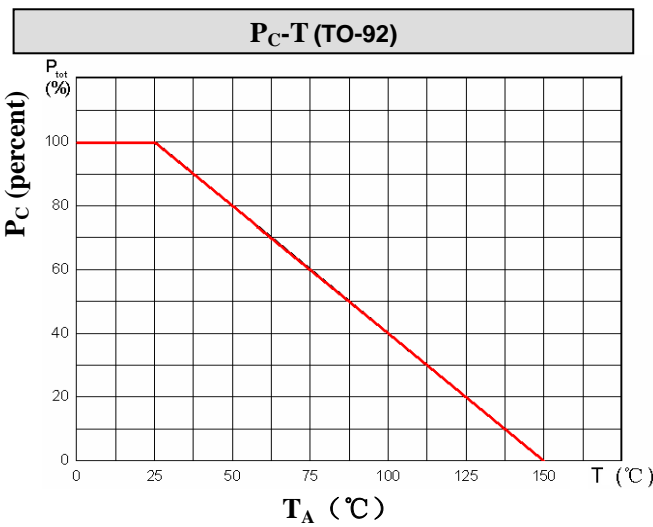
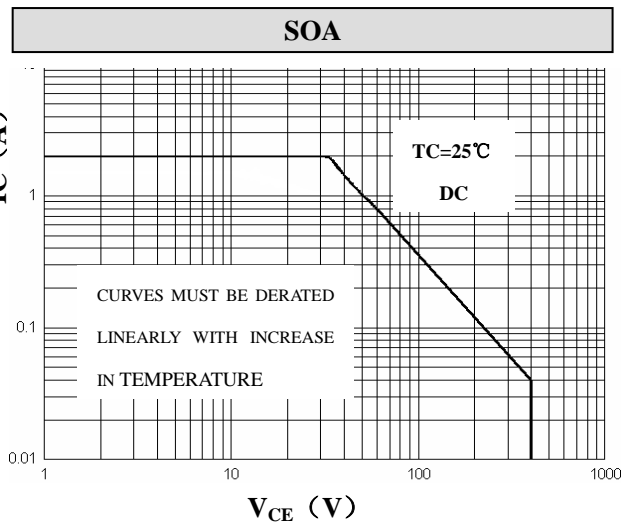
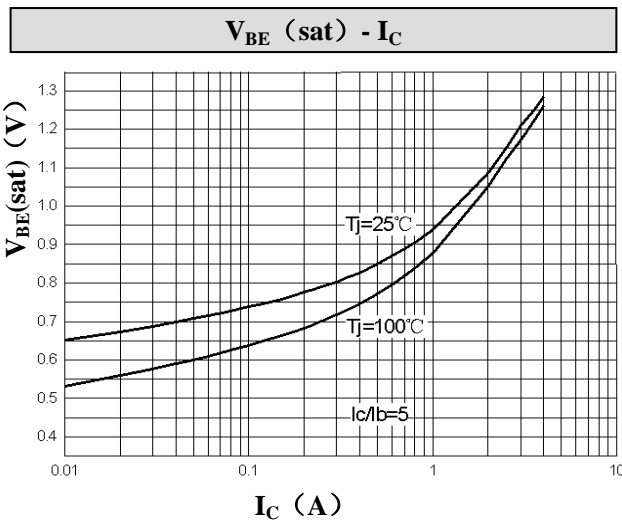
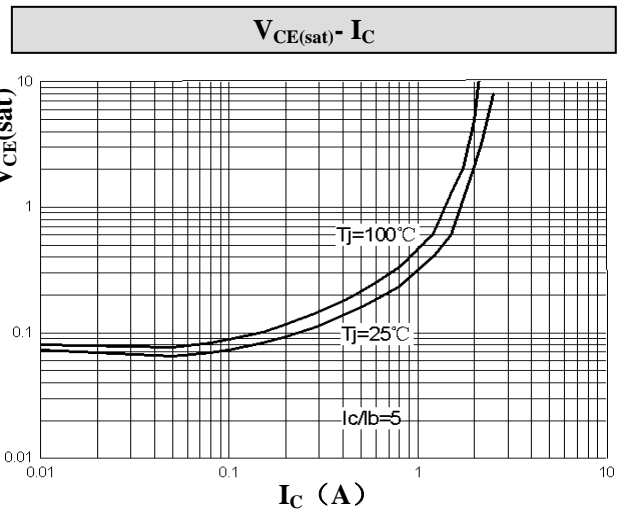
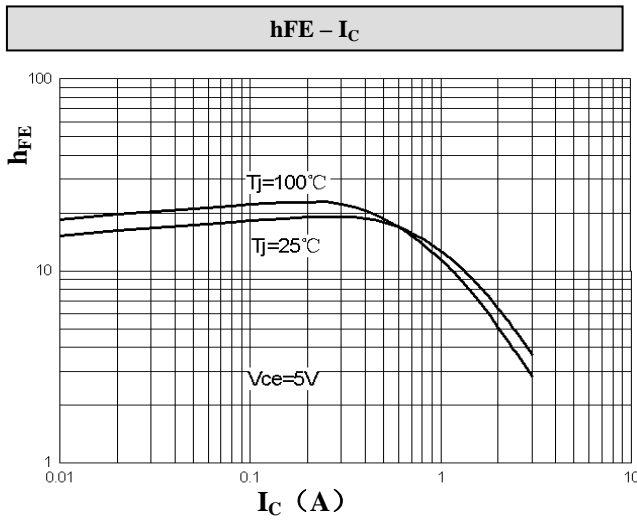
热特性 THERMAL CHARACTERISTIC

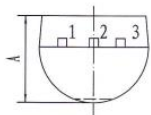
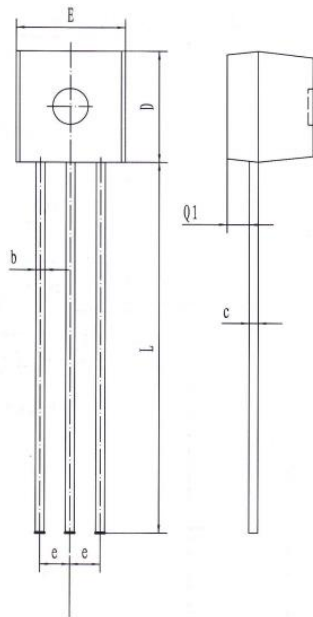
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 TO-92 Thermal Resistance Junction Ambient TO-92	R _{th(j-a)}	-	125	℃/W
结到管壳的热阻 IPAK Thermal Resistance Junction Case IPAK	R _{th(j-c)}	-	12.5	℃/W
结到管壳的热阻 TO-126(S) Thermal Resistance Junction Case TO-126(S)	R _{th(j-c)}	-	6.25	℃/W
结到管壳的热阻 TO-220 Thermal Resistance Junction Case TO-220	R _{th(j-c)}	-	3.125	℃/W



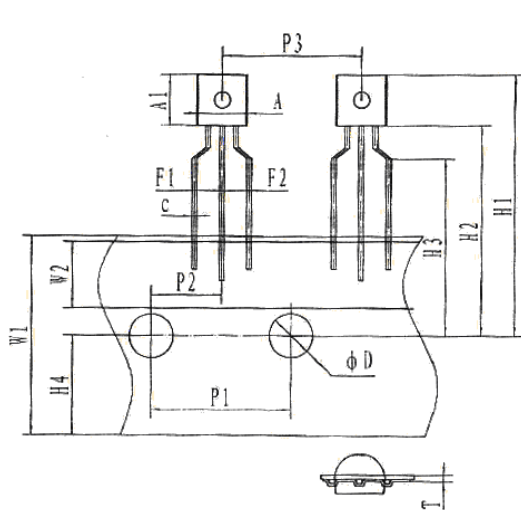


特征曲线 ELECTRICAL CHARACTERISTICS (curves)





符号 Symbol	尺寸 (mm) Size (mm)
A	3.30-3.90
b	0.35-0.55
c	0.31-0.51
D	4.30-4.90
E	4.30-4.90
e	1.17-1.37
L	12.50-15.50
Q1	0.85-1.00



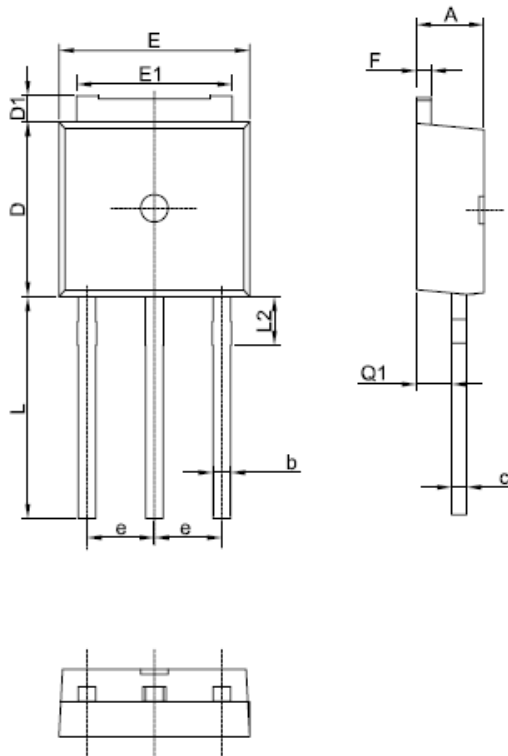
符号 Symbol	尺寸 (mm) Size (mm)
A	4.30-4.90
A1	4.30-4.90
A2	3.30-3.90
c	TYP 0.45
F1/F2	2.20-2.80
W1	17.5-18.5
W2	5.50-6.50
H1	22.0-27.0
H2	18.0-20.0
H3	15.0-17.0
H4	8.50-9.50
P1	12.5-12.9
P2	6.00-6.70
P3	12.5-12.9
T	0.40-0.45
φ D	3.80-4.20
△H	0.00-1.00





单位 Unit : mm

IPAK



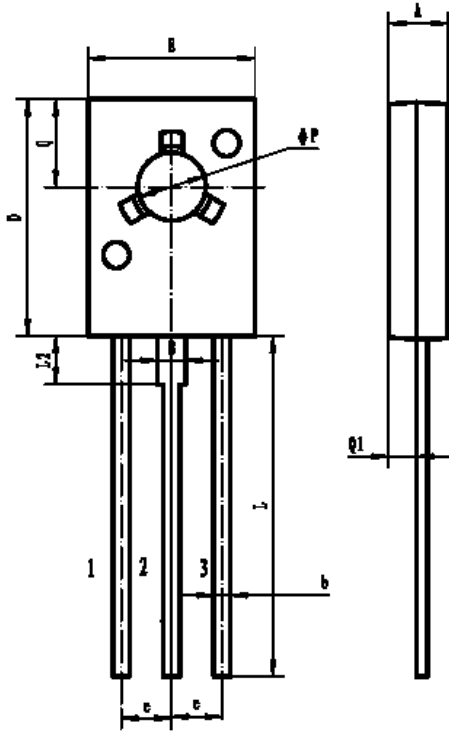
符号 symbol	MIN	MAX
A	2.2	2.4
b	0.7	0.9
c	0.45	0.55
D	6.0	6.3
D1	0.8	1.2
E	6.5	6.8
E1	5.2	5.5
e	2.28TYP	
F	0.45	0.55
L	6.85	7.15
L2	1.8	2.2
Q1	0.8	1.2





外形尺寸 PACKAGE MECHANICAL DATA
TO-126

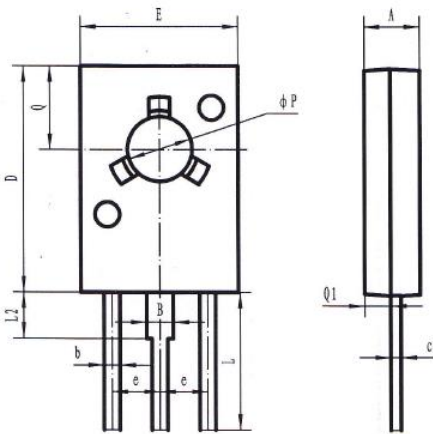
单位 Unit : mm



符号 symbol	MIN	MAX
A	2.50	2.90
B	1.22	1.28
C	0.30	0.70
D	10.50	11.10
E	7.10	8.10
Q	3.80	4.20
Q1	1.07	1.47
L	15.30	15.70
L2	2.10	2.30
b	0.60	0.90
e	2.19	2.39

外形尺寸 PACKAGE MECHANICAL DATA
TO-126S

单位 Unit : mm



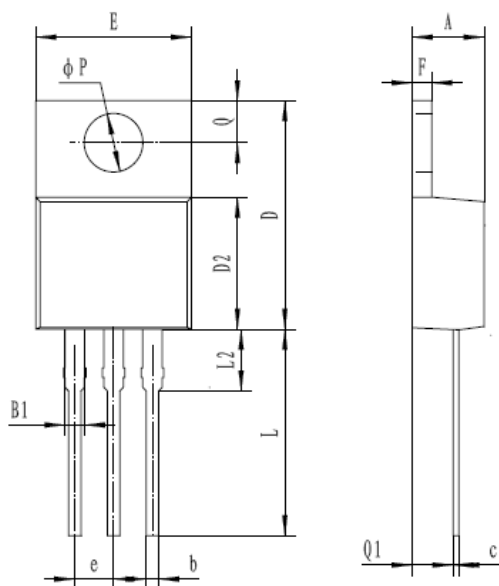
A	2.50-2.90
B	1.22-1.28
c	0.30-0.70
D	10.50-11.10
E	7.10-8.10
Q	3.80-4.20
Q1	1.07-1.47
L	7.80-8.20
L2	2.10-2.30
b	0.60-0.90
e	2.19-2.39





外形尺寸 PACKAGE MECHANICAL DATA
TO-220

单位 Unit : mm



符号	尺寸 (mm)
A	4.4-4.8
B1	1.1-1.4
b	0.7-0.95
c	0.3-0.55
D	14.45-16.0
D2	8.2-9.2
E	9.6-10.4
e	2.54 (typ)
F	1.2-1.35
L	13.05-14.05
L2	3.7-3.9
P	3.5-4.0
Q	2.4-3.0
Q1	2.2-2.9



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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

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