



3DD4223D

主要参数 MAIN CHARACTERISTICS

I_C	1.2A
V_{CEO}	400V
P_C (IPAK/DPAK)	10W
P_C (TO-126)	20W

用途

- 节能灯
- 充电器
- 高频开关电源
- 高频功率变换
- 一般功率放大电路

APPLICATIONS

- Electronic ballasts
- Battery charger
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier

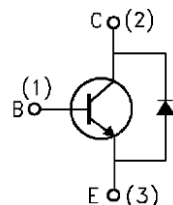
产品特性

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

FEATURES

- High breakdown voltage
- High current capability
- High switching speed
- High reliability
- RoHS product

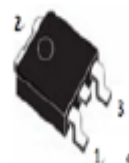
封装 Package



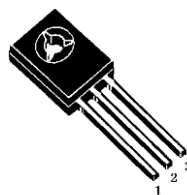
IPAK



DPAK



TO-126



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		
3DD4223D-V-B	3DD4223D-V-BR	3DD4223D-V-C	3DD4223D-V-CR	4223D	IPAK
N/A	N/A	3DD4223D-R-C	3DD4223D-R-CR	4223D	DPAK
3DD4223D-M-B	3DD4223D-M-BR	3DD4223D-M-C	3DD4223D-M-CR	4223D	TO-126
有卤-编带	有卤-编带			印 记 Markin	封 装 Package
Halogen-Reel	Halogen-Free-Reel				
3DD4223D-R-A	3DD4223D-R-AR			4223D	DPAK



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 Collector- Base Voltage	V_{CBO}	700	V
集电极—发射极直流电压 Collector- Emitter Voltage	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	1.5	A
最大集电极脉冲电流 Collector Current (pulse)	I_{CP}	3.0	A
最大集电极耗散功率 Total Dissipation (IPAK/DPAK)	P_C	10	W
最大集电极耗散功率 Total Dissipation (TO-126)	P_C	20	W
最高结温 Junction Temperature	T_j	150	$^{\circ}\text{C}$
贮存温度 Storage Temperature	T_{stg}	-55~+150	$^{\circ}\text{C}$

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
$V(BR)_{CEO}$	$I_C=10\text{mA}, I_B=0$	400	450	-	V
$V(BR)_{CBO}$	$I_C=1\text{mA}, I_B=0$	700	800	-	V
$V(BR)_{EBO}$	$I_E=1\text{mA}, I_C=0$	9	15	-	V
I_{CBO}	$V_{CB}=700\text{V}, I_E=0$	-	-	100	μA
I_{CEO}	$V_{CE}=400\text{V}, I_B=0$	-	-	1	mA
I_{EBO}	$V_{EB}=7\text{V}, I_C=0$	-	--	5	μA
hFE	$V_{CE}=10\text{V}, I_C=100\text{mA}$	10	22	40	-
	$V_{CE}=5\text{V}, I_C=1.5\text{A}$	3.0	4.0	-	-
$V_{CE(sat)}$	$I_C=0.5\text{A}, I_B=0.1\text{A}$	-	0.3	0.8	V
$V_{BE(sat)}$	$I_C=0.5\text{A}, I_B=0.1\text{A}$	-	0.9	1.2	V
tf	$V_{CC}=24\text{V}, I_C=0.25\text{A}, I_{B1}=-I_{B2}=0.05\text{A}$	-	-	0.7	μS
ts	$V_{CC}=24\text{V}, I_C=0.25\text{A}, I_{B1}=-I_{B2}=0.05\text{A}$	-	-	5	μS
fT	$V_{CE}=10\text{V}, I_C=0.1\text{A}$	4	-	-	MHz

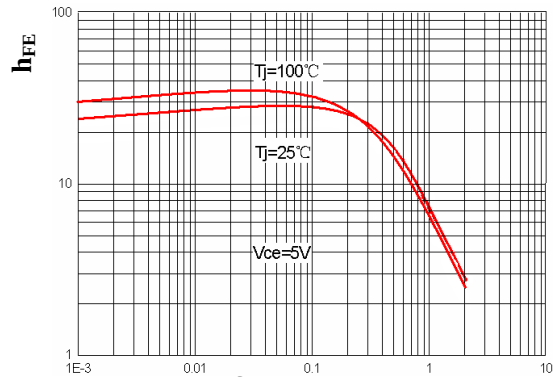
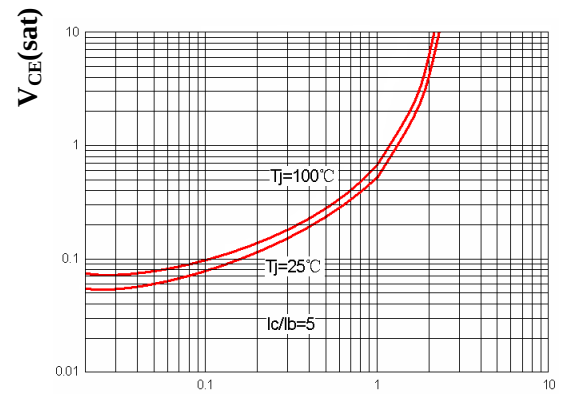
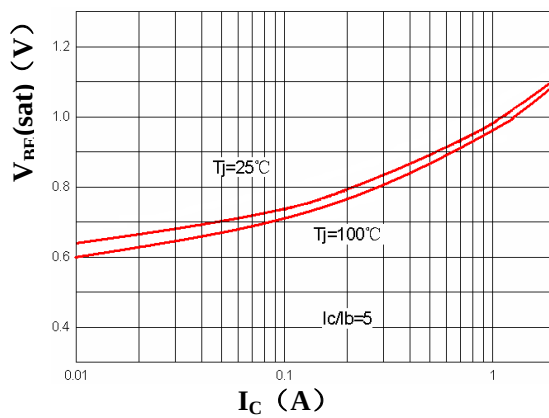
热特性 THERMAL CHARACTERISTIC

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 IPAK/DPAK Thermal Resistance Junction Case IPAK/DPAK	$R_{th(j-c)}$	-	12.5	$^{\circ}\text{C/W}$
结到管壳的热阻 TO-126 Thermal Resistance Junction Case TO-126	$R_{th(j-c)}$	-	6.25	$^{\circ}\text{C/W}$

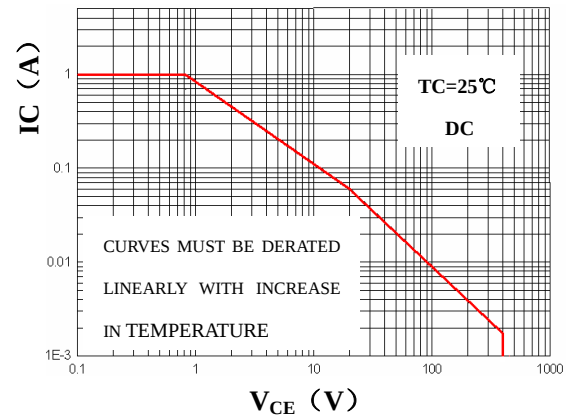
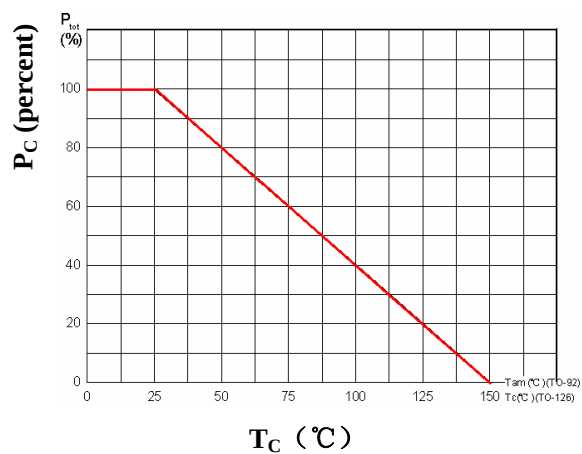




特征曲线 ELECTRICAL CHARACTERISTICS (curves)

 $h_{FE} - I_C$  $V_{CE(sat)} - I_C$  $V_{BE(sat)} - I_C$ 

SOA

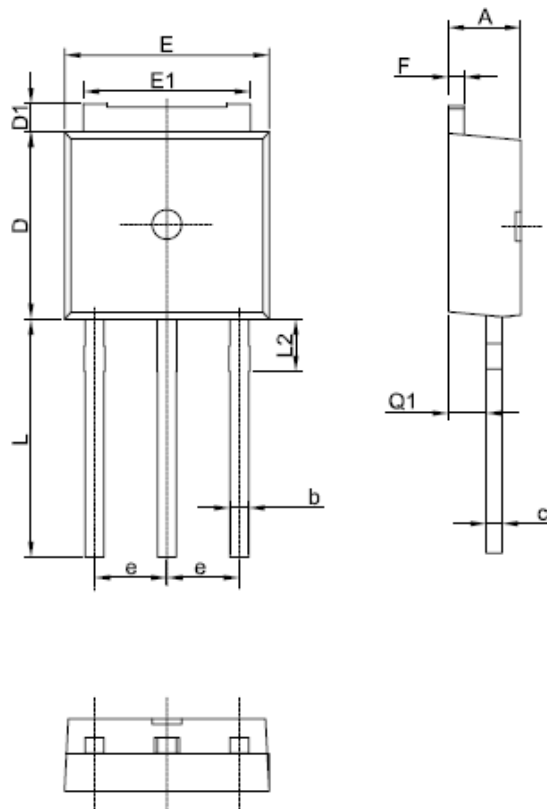
 $P_C - T_C$ 



外形尺寸 PACKAGE MECHANICAL DATA

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



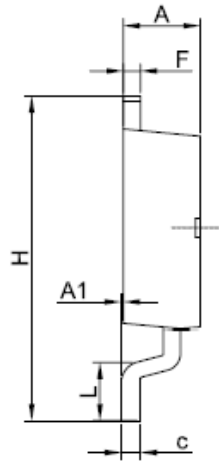
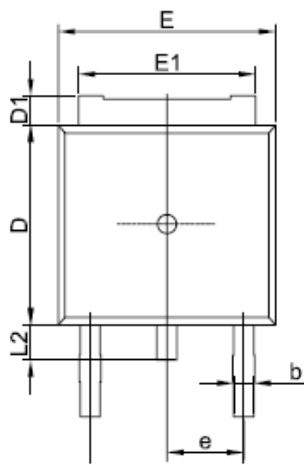


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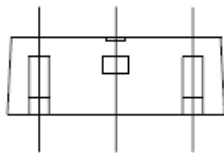
外形尺寸 PACKAGE MECHANICAL DATA

DPAK

单位Unit : mm



符号 symbol	MIN	MAX
A	2.2	2.4
A1	0.0	0.2
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
H	9.65	10.45
L	1.0	1.3
L2	0.7	1.3



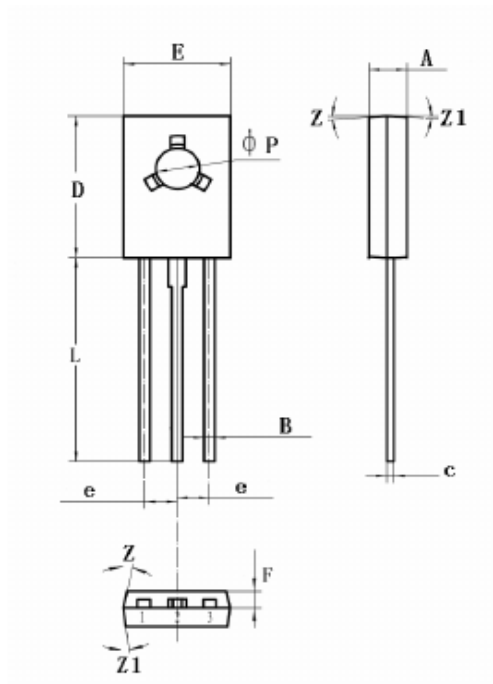


3DD4223D

外形尺寸 PACKAGE MECHANICAL DATA

TO-126

单位 Unit : mm



A	2.50-2.90
B	0.60-0.90
C	0.30-0.70
D	10.50-11.10
E	7.10-8.10
e	2.19-2.39
L	14.0-17.0
F	1.07-1.47
Z	4 ⁰
Z1	3 ⁰
P	2.90-3.30

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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。
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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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