



3DD4804

主要参数 MAIN CHARACTERISTICS

I_C	4.0A
V_{CEO}	450V
$P_C(TO-220HF/ DPAK)$	35W
$P_C(TO-220)$	70W

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

APPLICATIONS

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

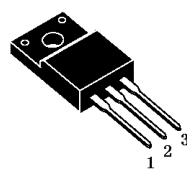
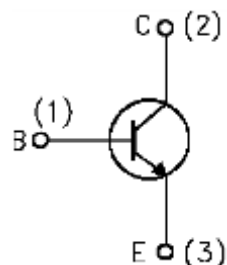
产品特性

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

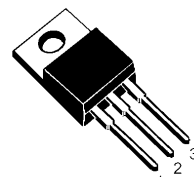
FEATURES

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

封装 Package



TO-220HF



TO-220



DPAK

订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	无卤-条管 Halogen-Free-Tube	有卤-袋装 Halogen-Bag	无卤-袋装 Halogen-Free-Bag		
3DD4804-CA-B	3DD4804-CA-BR	3DD4804-CA-C	3DD4804-CA-CR	4804	TO-220
3DD4804-FA-B	3DD4804-FA-BR	3DD4804-FA-C	3DD4804-FA-CR	4804	TO-220HF
N/A	N/A	3DD4804-R-C	3DD4804-R-CR	4804	DPAK
有卤-编带 Halogen-Reel	无卤-编带 Halogen-Free-Reel			印 记 Markin	封 装 Package
3DD4804-R-A	3DD4804-R-AR			4804	DPAK





绝对最大额定值 ABSOLUTE RATINGS (Tc=25°C)

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}	1050	V
集电极—发射极直流电压 Collector- Emitter Voltage (I _B =0)	V _{CEO}	450	V
发射极—基极直流电压 Emitter-Base Voltage	V _{EBO}	16	V
最大集电极直流电流 Collector Current (DC)	I _C	4	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	8	A
最大基极直流电流 Base Current (DC)	I _B	2	A
最大基极脉冲电流 Base Current (pulse)	I _{BP}	4	A
最大集电极耗散功率 Total Dissipation (TO-220HF)	P _C	35	W
最大集电极耗散功率 Total Dissipation (TO-220)	P _C	70	W
最高结温 Junction Temperature	T _J	150	°C
贮存温度 Storage Temperature	T _{stg}	-55~+150	°C

注：pulse电流宽度为小于5ms的非重复单脉冲。 Pulse Test: Pulse Width = 5.0 ms, Duty Cycle < 10%.

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	450	-	-	V
V(BR) _{CBO}	I _C =1mA, I _B =0	1050	-	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	16	-	-	V
I _{CBO}	V _{CB} =1000V, I _E =0	-	-	100	μA
I _{CEO}	V _{CE} =450V, I _B =0	-	-	50	μA
I _{EBO}	V _{EB} =16V, I _C =0	-	-	10	μA
Hfe(1)	V _{CE} =5V, I _C =200mA	30	-	60	
Hfe(2)	V _{CE} =5V, I _C =2A	5	-	-	
V _{CE(sat)} (1)	I _C =1A, I _B =0.2A	-	-	0.5	V
V _{CE(sat)} (2)	I _C =3.5A, I _B =1A	-	-	1.5	V
V _{BE(sat)}	I _C =3.5A, I _B =1A	-	-	1.5	V
ts	I _C =0.5A, I _B =0.1A	1.2	-	3.3	μS
fT	V _{CE} =10V, I _C =0.5A	6	-	-	MHz

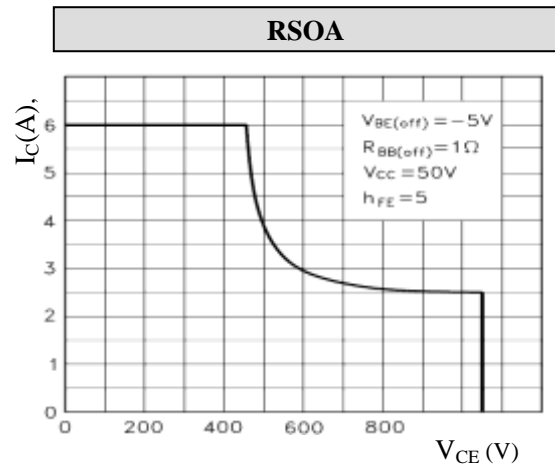
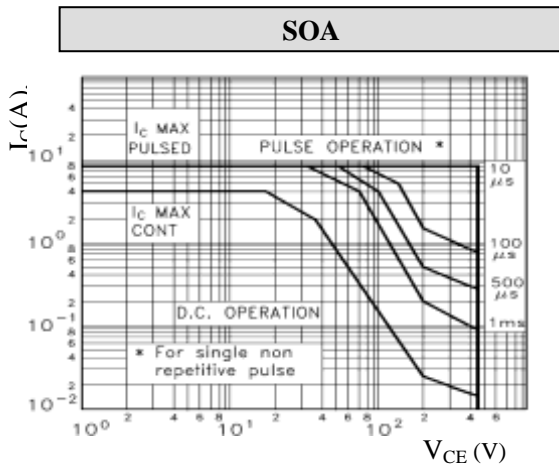
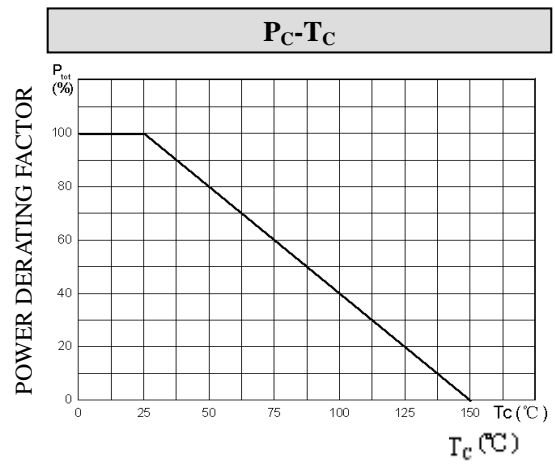
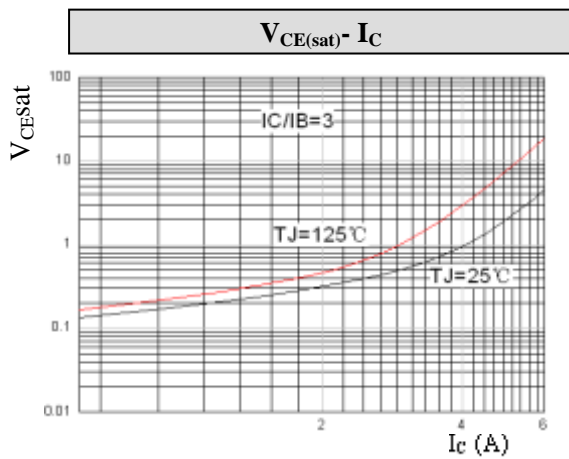
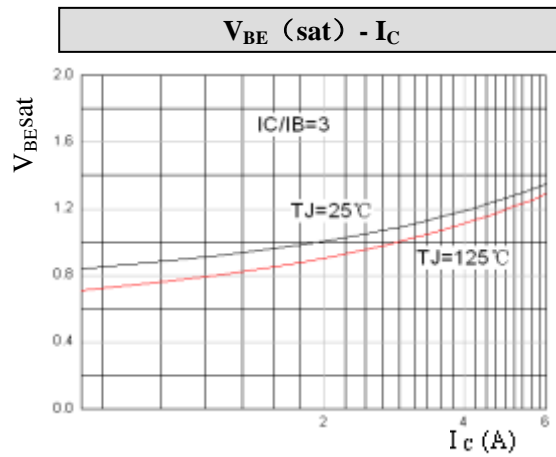
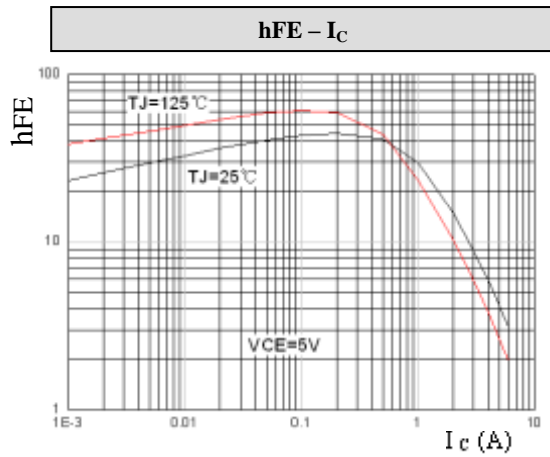
热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 TO-220HF Thermal Resistance Junction Case TO-220HF	R _{th(j-c)}	-	3.57	°C/W
结到管壳的热阻 TO-220 Thermal Resistance Junction Case TO-220	R _{th(j-c)}	-	1.79	°C/W



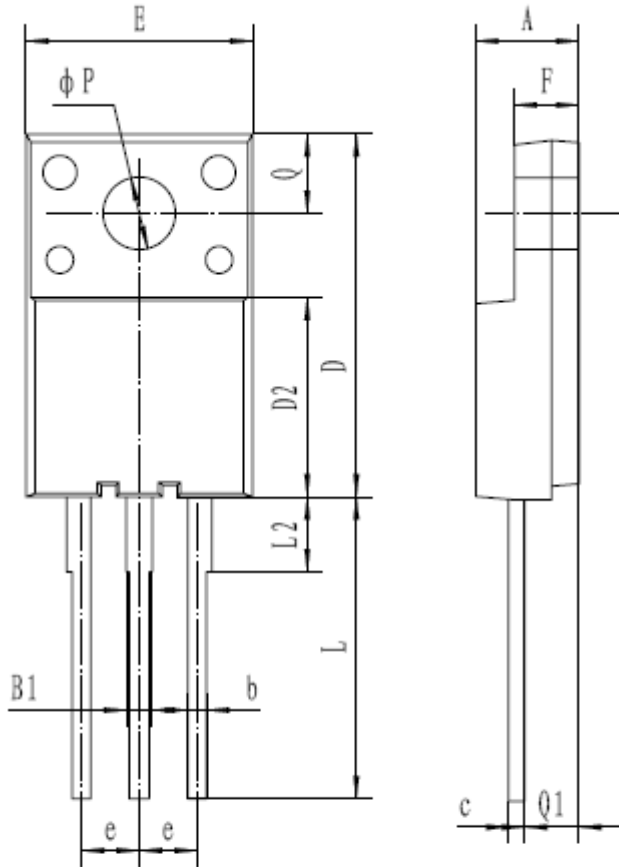


特征曲线 ELECTRICAL CHARACTERISTICS (curves)





TO-220HF

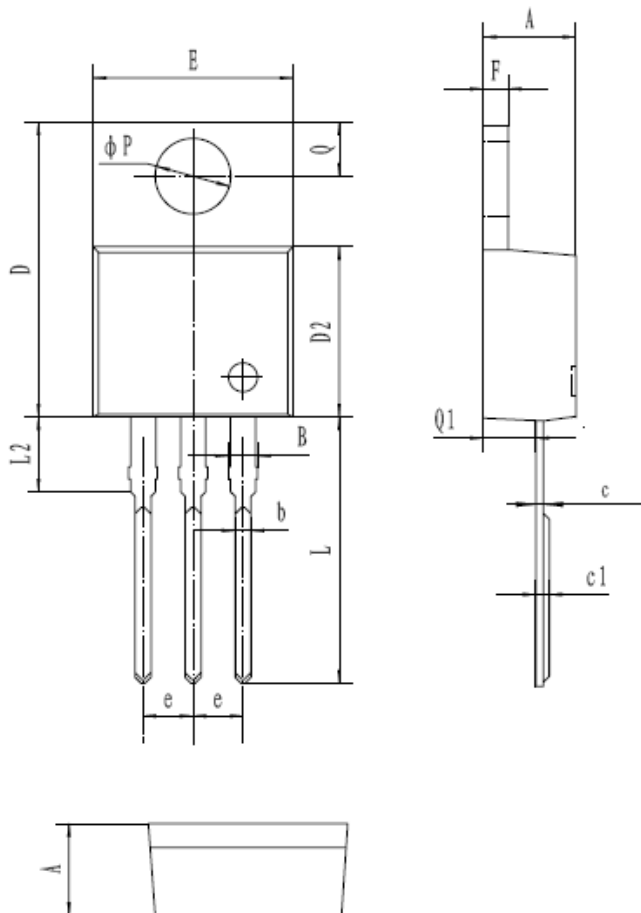


符号 Symbol	Min	Max
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.70
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54(typ)	
F	2.3	3.3
L	12.0	14.0
L2	3.1	3.5
ϕP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5





TO-220

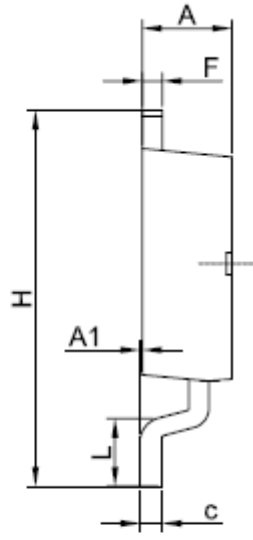
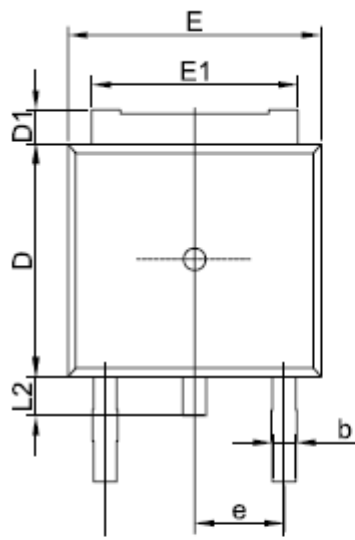


符号 symbol	MIN	MAX
A	4.40	4.80
B	1.10	1.40
b	0.70	0.95
c	0.28	0.48
c1	0.32	0.52
D	14.45	16.00
D2	8.20	9.20
E	9.60	10.40
e	2.39	2.69
F	1.20	1.35
L	13.05	14.05
L2	3.70	3.90
Q	2.40	3.00
Q1	2.20	2.90
P	3.50	4.00

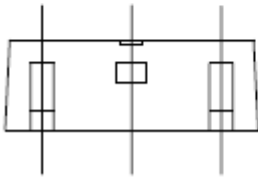




DPAK



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



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