



# MJD50TF

## 主要参数 MAIN CHARACTERISTICS

$I_c$	1.0A
$V_{CEO}$	400V
$P_C(DPAK)$	15W

## 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

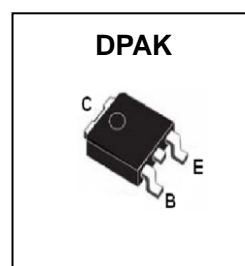
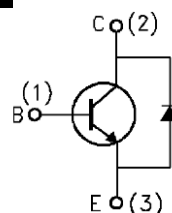
## APPLICATIONS

- Energy-saving light
- Electronic ballasts
- 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-编带	无卤-编带	有卤-袋装	无卤-袋装		
Halogen-Reel	Halogen-Free-Reel	Halogen-Bag	Halogen-Free-Bag	MJD50	DPAK
MJD50TF-R-A	MJD50TF-R-AR	MJD50TF-R-C	MJD50TF-R-CR		





## 绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

Parameter 参数	Symbol 符号	Value 数字	Unit 单位
集电极—发射极直流电压 Collector- Emitter Voltage (I <sub>E</sub> =0)	V <sub>CE0</sub>	700	V
集电极—发射极直流电压 Collector- Emitter Voltage (I <sub>B</sub> =0)	V <sub>CEO</sub>	400	V
发射极—基极直流电压 Emitter-Base Voltage	V <sub>EBO</sub>	10	V
最大集电极直流电流 Collector Current (DC)	I <sub>C</sub>	1	A
最大集电极脉冲电流 Collector Current (pulse)	I <sub>CP</sub>	2	A
最大基极直流电流 Base Current (DC)	I <sub>B</sub>	0.6	A
最大基极脉冲电流 Base Current (pulse)	I <sub>BP</sub>	1.2	A
最大集电极耗散功率 Total Dissipation DPAK	P <sub>C</sub>	15	W
最高结温 Junction Temperature	T <sub>j</sub>	150	℃
贮存温度 Storage Temperature	T <sub>stg</sub>	-55~+150	℃

Note: 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

Parameter 参数	Tests conditions 测试条件	Value(min) 最小值	Value(typ) 典型值	Value(max) 最大值	Unit 单位
V(BR) <sub>CEO</sub>	I <sub>C</sub> =5mA, I <sub>B</sub> =0	400	-	-	V
V(BR) <sub>CBO</sub>	I <sub>C</sub> =1mA, I <sub>E</sub> =0	700	-	-	V
V(BR) <sub>EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	10	-	-	V
I <sub>CBO</sub>	V <sub>CB</sub> =700V, I <sub>E</sub> =0	-	-	50	μA
I <sub>CEO</sub>	V <sub>CE</sub> =400V, I <sub>B</sub> =0	-	-	100	μA
I <sub>EBO</sub>	V <sub>EB</sub> =11V, I <sub>C</sub> =0	-	-	50	μA
Hfe(1)	V <sub>CE</sub> =10V, I <sub>C</sub> =300mA	30	-	150	
Hfe(2)	V <sub>CE</sub> =10V, I <sub>C</sub> =1A	10	-	-	
V <sub>CE(sat)</sub>	I <sub>C</sub> =1A, I <sub>B</sub> =0.2A	-	-	1.0	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =1A, I <sub>B</sub> =0.2A	-	-	1.5	V

## 热特性 THERMAL CHARACTERISTIC

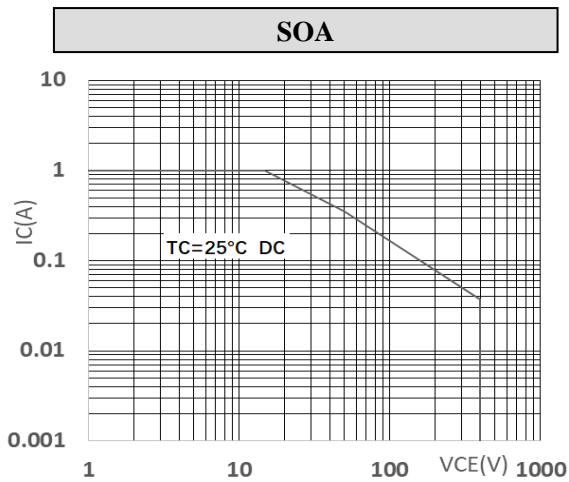
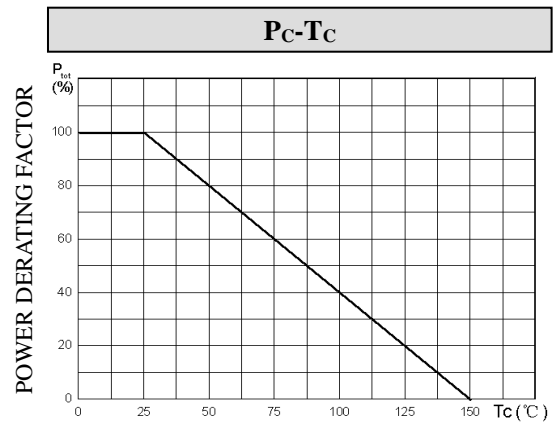
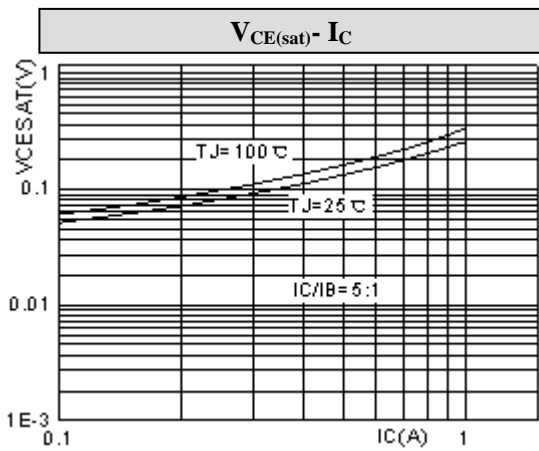
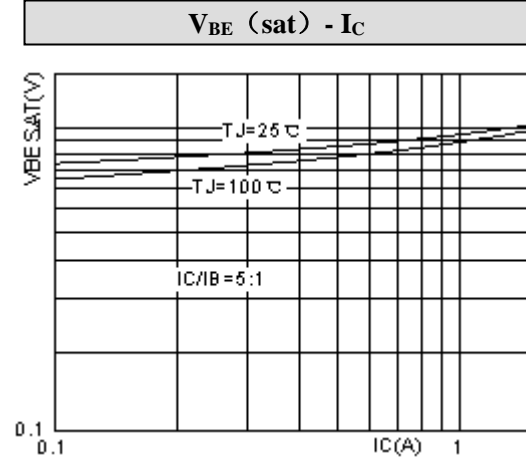
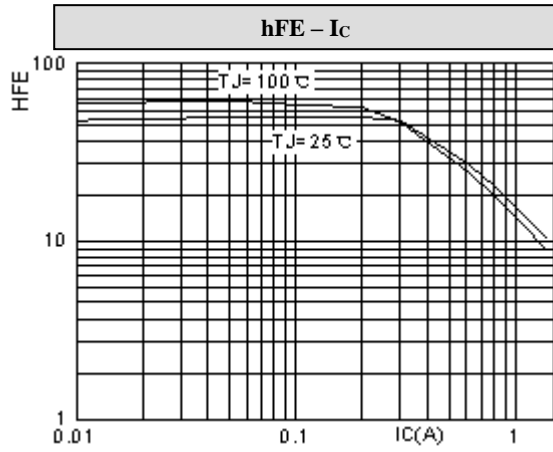
Parameter 参数	Symbol 符号	Value(min) 最小值	Value(max) 最大值	Unit 单位
结到管壳的热阻 DPAK Thermal Resistance Junction Case DPAK	R <sub>th(j-c)</sub>	-	8.33	℃/W





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## 电特性曲线 ELECTRICAL CHARACTERISTICS (curves)

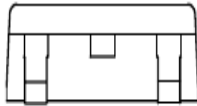
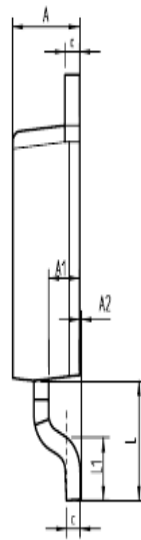
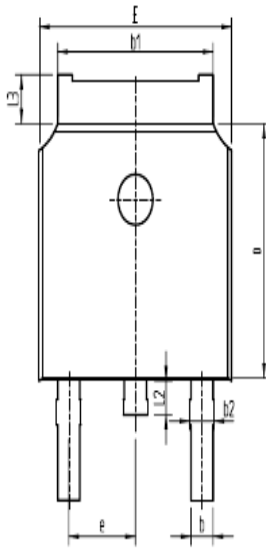




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## 外形尺寸 PACKAGE MECHANICAL DATA DPAK

单位 Unit : mm



SYMBOL	mm	
	MIN	MAX
A	2.16	2.41
A1	0.97	1.17
A2	0.00	0.15
b	0.63	0.93
b1	5.13	5.53
b2	0.66	0.96
c	0.40	0.60
D	5.80	6.40
E	6.30	6.90
e	2.286BSC	
L	2.50	3.30
L1	1.20	1.80
L2	0.60	1.00
L3	0.85	1.30





## 注意事项

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