



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

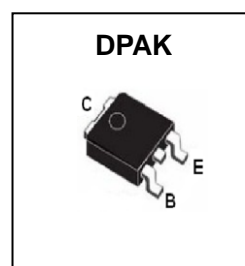
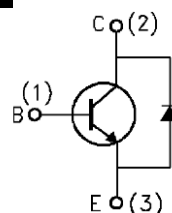
APPLICATIONS

- 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 _E =0)	V _{CE0}	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}	10	V
最大集电极直流电流 Collector Current (DC)	I _C	1	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	2	A
最大基极直流电流 Base Current (DC)	I _B	0.6	A
最大基极脉冲电流 Base Current (pulse)	I _{BP}	1.2	A
最大集电极耗散功率 Total Dissipation DPAK	P _C	15	W
最高结温 Junction Temperature	T _j	150	℃
贮存温度 Storage Temperature	T _{stg}	-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) _{CEO}	I _C =5mA, I _B =0	400	-	-	V
V(BR) _{CBO}	I _C =1mA, I _E =0	700	-	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	10	-	-	V
I _{CBO}	V _{CB} =700V, I _E =0	-	-	50	μA
I _{CEO}	V _{CE} =400V, I _B =0	-	-	100	μA
I _{EBO}	V _{EB} =11V, I _C =0	-	-	50	μA
Hfe(1)	V _{CE} =10V, I _C =300mA	30	-	150	
Hfe(2)	V _{CE} =10V, I _C =1A	10	-	-	
V _{CE(sat)}	I _C =1A, I _B =0.2A	-	-	1.0	V
V _{BE(sat)}	I _C =1A, I _B =0.2A	-	-	1.5	V

热特性 THERMAL CHARACTERISTIC

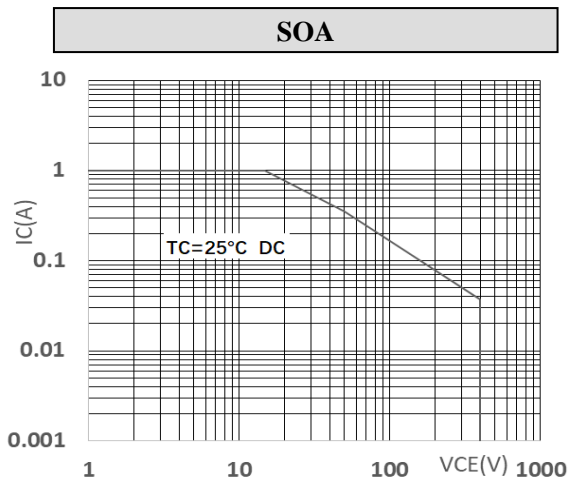
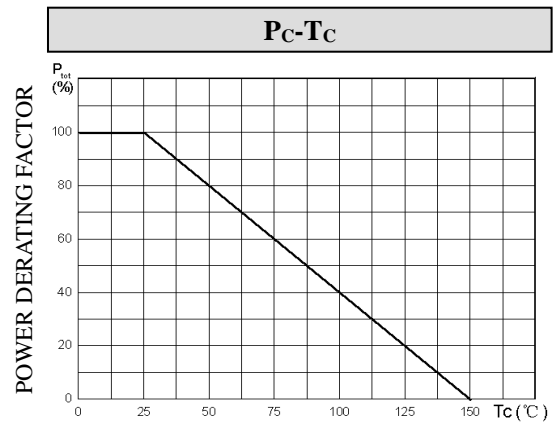
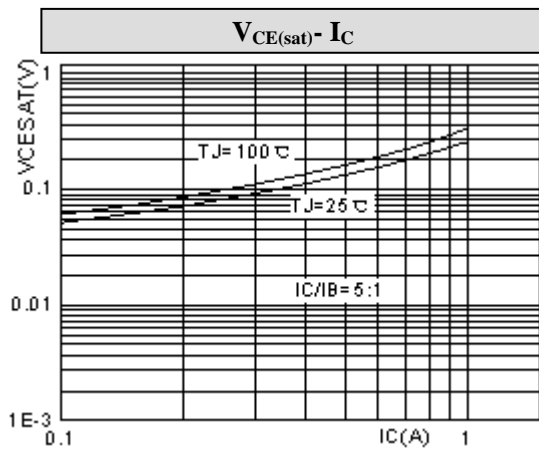
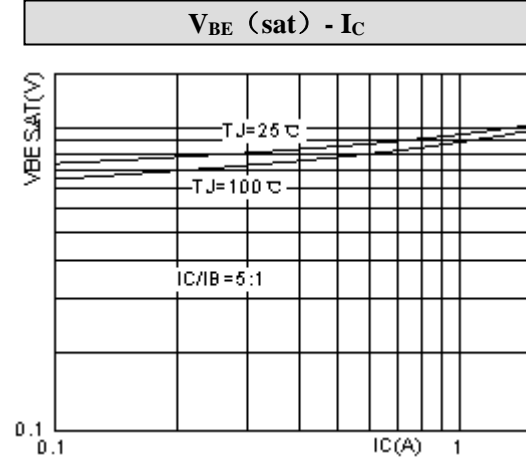
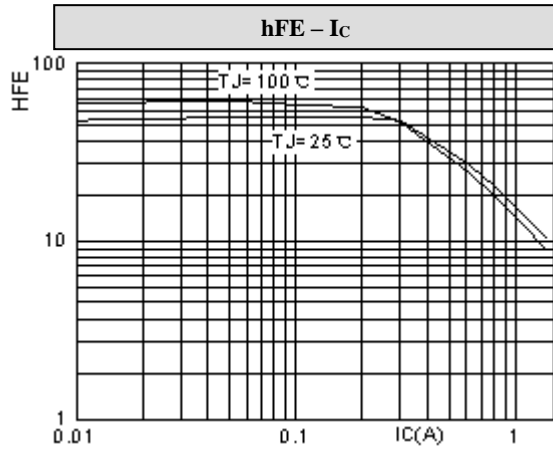
Parameter 参数	Symbol 符号	Value(min) 最小值	Value(max) 最大值	Unit 单位
结到管壳的热阻 DPAK Thermal Resistance Junction Case DPAK	R _{th(j-c)}	-	8.33	℃/W





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电特性曲线 ELECTRICAL CHARACTERISTICS (curves)

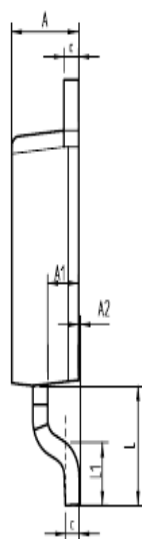
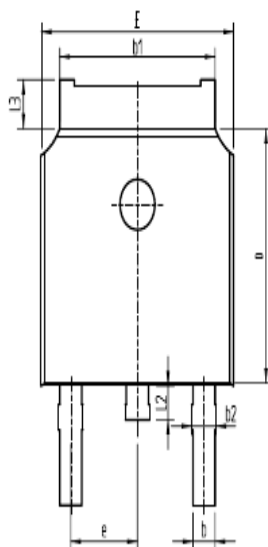




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外形尺寸 PACKAGE MECHANICAL DATA DPAK

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





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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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