



MJD50TF

主要参数 MAIN CHARACTERISTICS

I_C	1A
V_{CEO}	400V
P_C (DPAK)	15W

用途

- 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

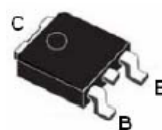
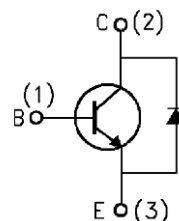
APPLICATIONS

- 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

Package



DPAK

订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-编带	有卤-编带	有卤-袋装	有卤-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 ($T_C=25^\circ\text{C}$)

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 ($V_{BE}=0$)	V_{CES}	500	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}	5	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	$^\circ\text{C}$
贮存温度 Storage Temperature	T_{stg}	-55~+150	$^\circ\text{C}$

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
$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	400	-	-	V
$V_{(BR)CBO}$	$I_C=1\text{mA}, I_E=0$	500	-	-	V
$V_{(BR)EBO}$	$I_E=1\text{mA}, I_C=0$	5	-	-	V
I_{CBO}	$V_{CB}=500\text{V}, I_E=0$	-	-	100	μA
I_{CEO}	$V_{CE}=300\text{V}, I_B=0$	-	-	100	μA
I_{EBO}	$V_{EB}=5\text{V}, I_C=0$	-	-	10	μA
Hfe(1)	$V_{CE}=10\text{V}, I_C=300\text{mA}$	30	-	150	
Hfe(2)	$V_{CE}=10\text{V}, I_C=1\text{A}$	10	-	-	
$V_{CE(sat)}$	$I_C=1\text{A}, I_B=0.2\text{A}$	-	-	1.0	V
$V_{BE(sat)}$	$I_C=1\text{A}, I_B=0.2\text{A}$	-	-	1.5	V

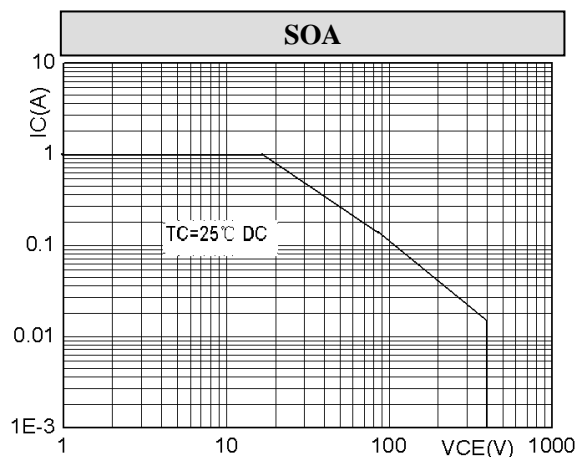
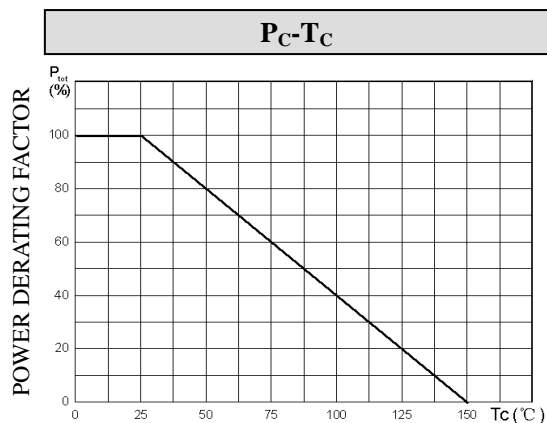
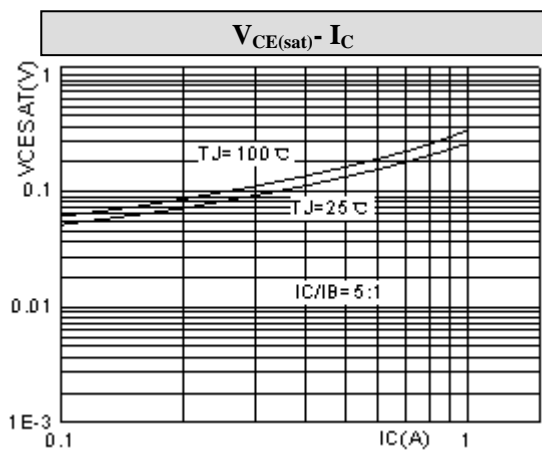
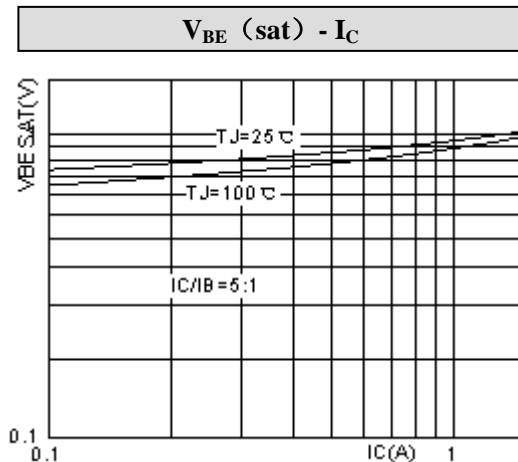
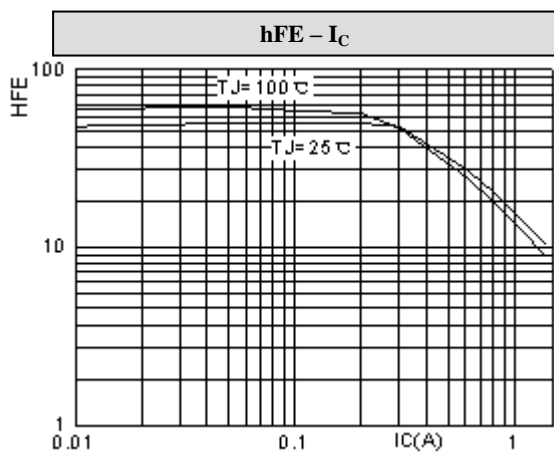
热特性 THERMAL CHARACTERISTIC

Parameter 参数	Symbol 符号	Value(min) 最小值	Value(max) 最大值	Unit 单位
热阻 Thermal Resistance Junction Case DPAK	$R_{th(j-c)}$	-	8.33	$^\circ\text{C/W}$





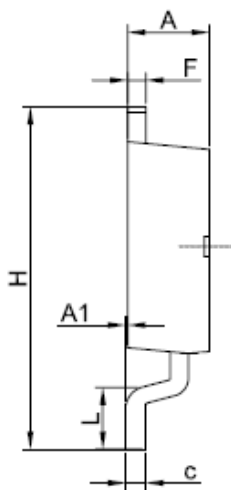
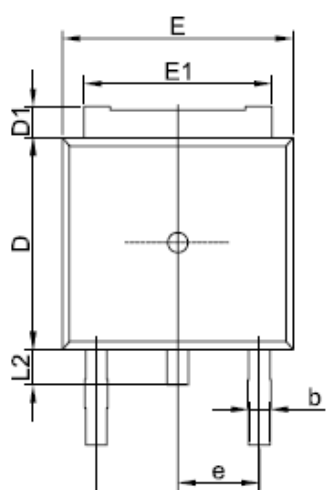
电特性曲线 ELECTRICAL CHARACTERISTICS (curves)



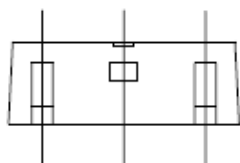


外形尺寸 PACKAGE MECHANICAL DATA

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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