

## MJE 系列晶体管/MJE SERIES TRANSISTORS

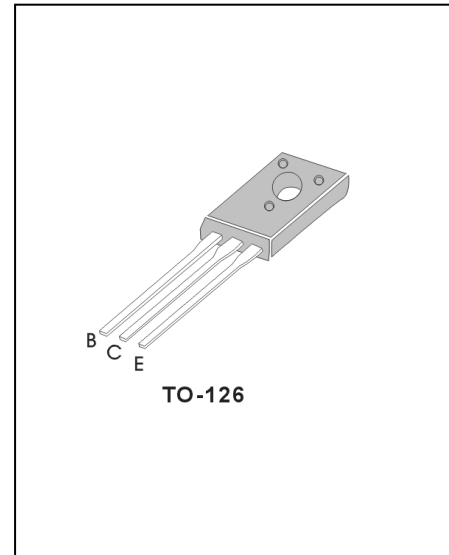
## MJE13003BR (H)

- 特点：耐高压 开关速度快 安全工作区宽 符合 RoHS 规范
- FEATURES: ■HIGH VOLTAGE CAPABILITY ■HIGH SPEED SWITCHING ■WIDE SOA ■RoHS COMPLIANT
- 应用：节能灯 电子镇流器
- APPLICATION: ■FLUORESCENT LAMP ■ELECTRONIC BALLAST

## ●最大额定值 (Tc=25°C)

## ●Absolute Maximum Ratings (Tc=25°C) TO-126

参数 PARAMETER	符号 SYMBOL	额定值 VALUE	单位 UNIT
集电极-基极电压 Collector-Base Voltage	V <sub>CB0</sub>	600	V
集电极-发射极电压 Collector-Emitter Voltage	V <sub>CEO</sub>	400	V
发射极-基极电压 Emitter-Base Voltage	V <sub>EBO</sub>	9	V
集电极电流 Collector Current	I <sub>C</sub>	1.0	A
集电极耗散功率 Total Power Dissipation	P <sub>C</sub>	20	W
最高工作温度 Junction Temperature	T <sub>j</sub>	150	°C
贮存温度 Storage Temperature	T <sub>stg</sub>	-65-150	°C



## ●电特性 (Tc=25°C)

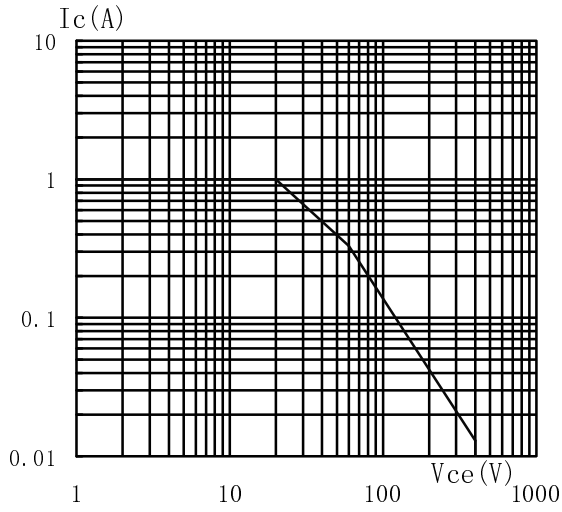
## ●Electronic Characteristics (Tc=25°C)

参数名称 CHARACTERISTICS	符号 SYMBOL	测试条件 TEST CONDITION	最小值 MIN	最大值 MAX	单位 UNIT
集电极-基极截止电流 Collector-Base Cutoff Current	I <sub>CB0</sub>	V <sub>CB</sub> =600V		100	μA
集电极-发射极截止电流 Collector-Emitter Cutoff Current	I <sub>CEO</sub>	V <sub>CE</sub> =400V, I <sub>B</sub> =0		250	μA
集电极-发射极电压 Collector-Emitter Voltage	V <sub>CEO</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =0	400		V
发射极-基极电压 Emitter-Base Voltage	V <sub>EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	9		V
集电极-发射极饱和电压 Collector-Emitter Saturation Voltage	V <sub>cesat</sub>	I <sub>C</sub> =0.20A, I <sub>B</sub> =0.04A		0.30	V
		I <sub>C</sub> =0.75A, I <sub>B</sub> =0.25A		0.50	
发射极-基极饱和电压 Base-Emitter Saturation Voltage	V <sub>besat</sub>	I <sub>C</sub> =0.2A, I <sub>B</sub> =0.04A		1.2	V
电流放大倍数 DC Current Gain	h <sub>FE</sub>	V <sub>CE</sub> =5V, I <sub>C</sub> =1mA	7		
		V <sub>CE</sub> =10V, I <sub>C</sub> =0.1A	10	40	
		V <sub>CE</sub> =5V, I <sub>C</sub> =1A	5		
贮存时间 Storage Time	t <sub>s</sub>	V <sub>CC</sub> =5V, I <sub>C</sub> =0.25A, (UI9600)	1.5	3.5	μS
下降时间 Falling Time	t <sub>f</sub>			1.0	

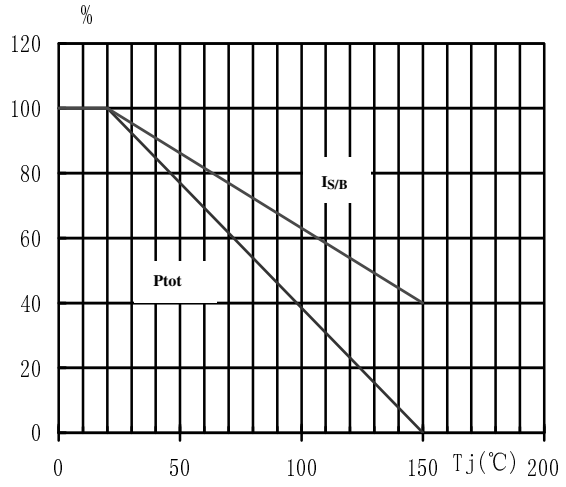
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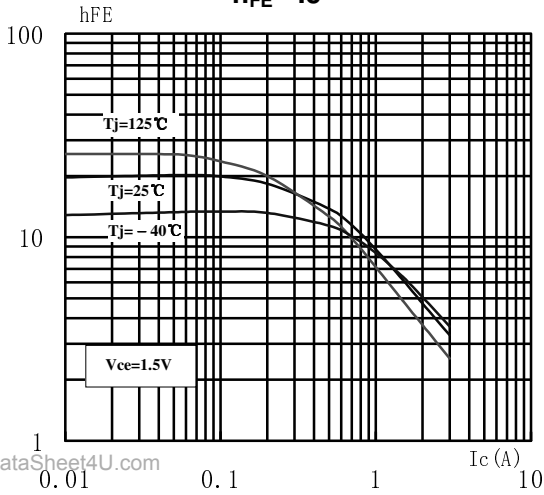
SOA (DC)



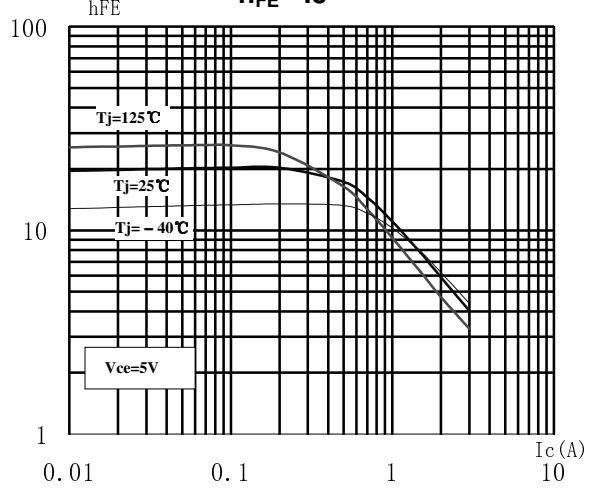
$P_c \propto T_j$



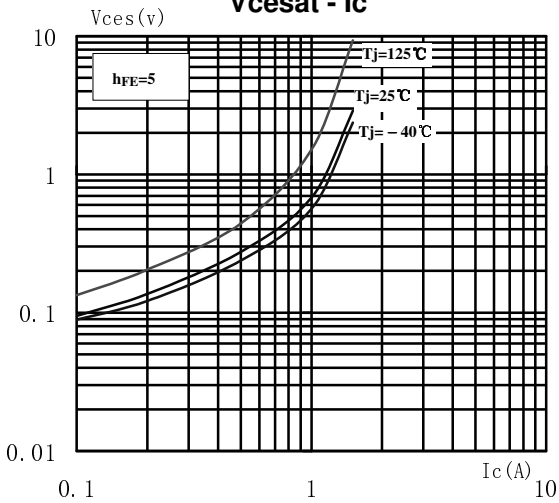
$h_{FE} - I_c$



$h_{FE} - I_c$



$V_{cesat} - I_c$



$V_{besat} - I_c$

