

NPN BUL 系列晶体管/ BUL SERIES TRANSISTORS

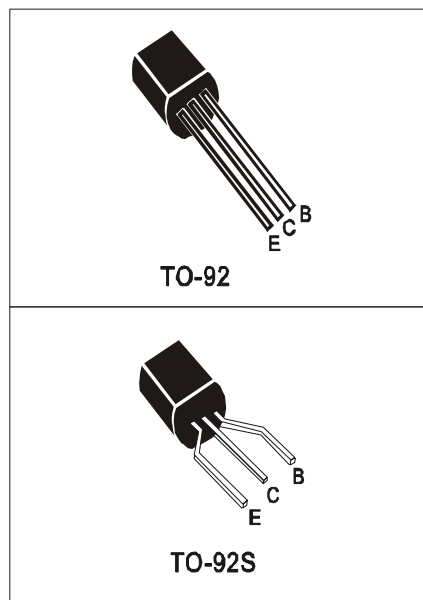
MJE13001H

- 特点: 耐压高 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: 充电器 节能灯 电子镇流器
- APPLICATION: ■RECHARGER ■FLUORESCENT LAMP ■ELECTRONIC BALLAST

● 最大额定值 (Ta=25°C)

● Absolute Maximum Ratings (Ta=25°C) TO-92/92S

参数 PARAMETER	符号 SYMBOL	额定值 VALUE	单位 UNIT
集电极-基极电压 Collector-Base Voltage	V_{CBO}	700	V
集电极-发射极电压 Collector-Emitter Voltage	V_{CEO}	480	V
集电极-发射极电压 Emitter- Base Voltage	V_{EBO}	9	V
基极电流 Base Current	I_b	100	mA
基极峰值电流 Base Peak Current	I_{bm}	200	mA
集电极电流 Collector Current	I_c	180	mA
集电极峰值电流 Collector Peak Current	I_{cm}	360	mA
集电极耗散功率 Total Power Dissipation	P_{tot}	1.0	W
最高工作温度 Junction Temperature	T_j	150	°C
贮存温度 Storage Temperature	T_{stg}	-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_{CBO}	$V_{CB}=700V$		100	μA
集电极-发射极截止电流 Collector-Emitter Cutoff Current	I_{CEO}	$V_{CE}=480V, I_B=0$		250	μA
集电极-基极电压 Collector-Base Voltage	V_{CBO}	$I_C=1mA, I_E=0$	700		V
集电极-发射极电压 Collector-Emitter Voltage	V_{CEO}	$I_C=10mA, I_B=0$	480		V
发射极 -基极电压 Emitter- Base Voltage	V_{EBO}	$I_E=1mA, I_C=0$	9		V
集电极-发射极饱和电压 Collector-Emitter Saturation Voltage	V_{cesat}	$I_C=50mA, I_B=10mA$		0.5	V
		$I_C=120mA, I_B=40mA$		1	
发射极-基极饱和电压 Base-Emitter Saturation Voltage	V_{besat}	$I_C=50mA, I_B=10mA$		1.2	V
电流放大倍数 DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=1mA$	7		
		$V_{CE}=20V, I_C=20mA$	15	30	
		$V_{CE}=5V, I_C=180mA$	5		

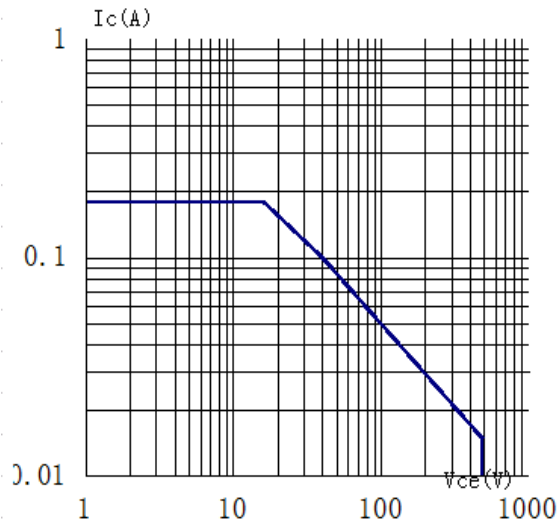
● 订单信息/ORDERING INFORMATION:

包装形式/PACKING	订货编码/ORDERING CODE	
	普通塑封料/ Nomal Package Material	无卤塑封料/Halogen Free
TO-92 普通袋装/NORMAL PACKING	MJE13001H TO-92	MJE13001H TO-92-HF
TO-92S 普通袋装/NORMAL PACKING	MJE13001H TO-92S	MJE13001H TO-92S-HF
TO-92 盒式编带/AMMOPACK	MJE13001H TO-92-AP	MJE13001H TO-92-AP-HF

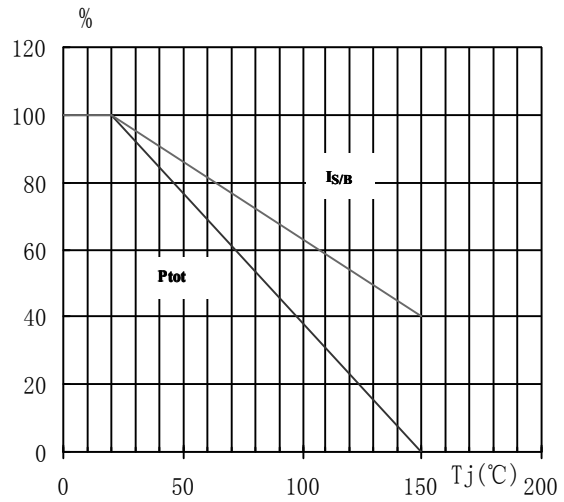
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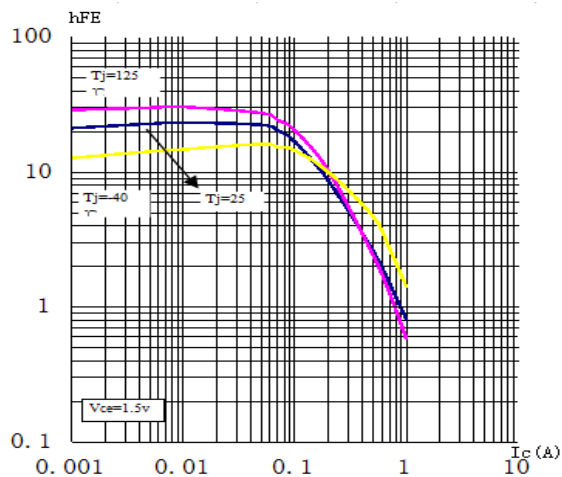
SOA (DC)



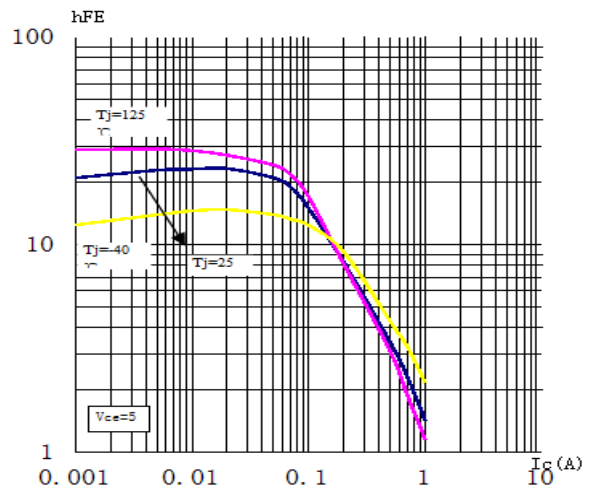
$P_{tot} \propto T_j$



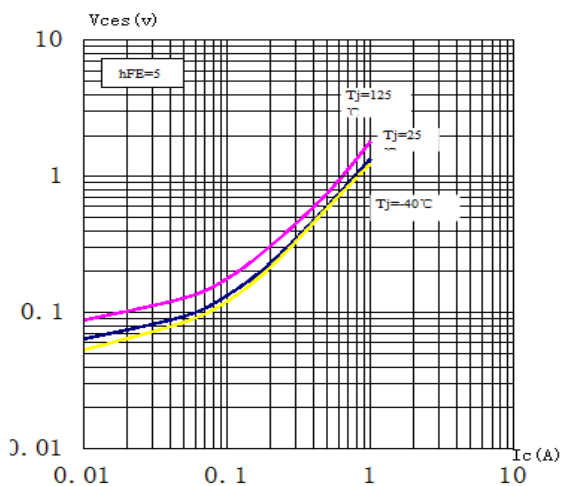
$h_{FE} - I_c$



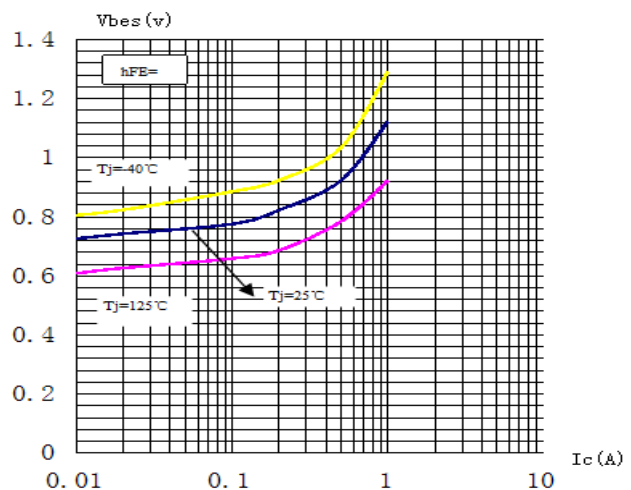
$h_{FE} - I_c$



$V_{cesat} - I_c$



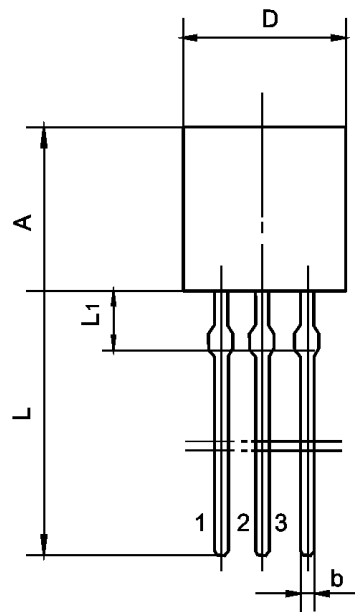
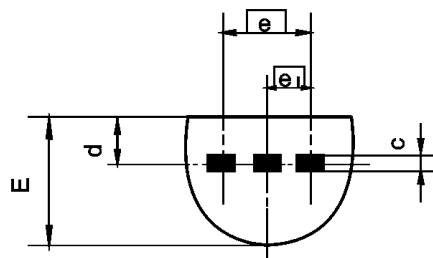
$V_{besat} - I_c$



TO-92 封装机械尺寸 TO-92 MECHANICAL DATA

单位:毫米/UNIT: mm

符号/SYMBOL	最小值/min	典型值/nom	最大值/max
A	4.30		5.30
b	0.30		0.55
c	0.30		0.50
ϕD D	4.30		5.20
d	1.00		1.70
E	3.20		4.20
e		2.54	
e1		1.27	
L	12.70		15.00
L1	1.50		2.00



TO-92S 封装机械尺寸 TO-92S MECHANICAL DATA

单位:毫米/UNIT: mm

符号/SYMBOL	最小值/min	典型值/nom	最大值/max
A	4.30		5.30
b	0.30		0.55
c	0.30		0.50
D(ϕ D)	4.30		5.20
d	1.00		1.70
E	3.20		4.20
F	2.25	2.40	2.55
L	3.20		3.80
L1	2.60		2.70

