



SY semiconductors

● 特点

耐压高 开关速度快

安全工作区宽 符合 RoHS 规范

● 应用

节能灯、电子镇流器

电子变压器、开关电源

FEATURES

▲HIGH VOLTAGE CAPABILITY ▲HIGH SPEED SWITCHING

▲WIDE SOA ▲RoHS COMPL

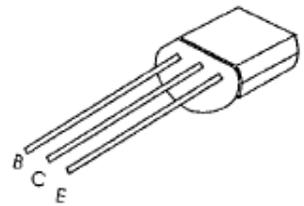
APPLICATION

▲FLUORESCENT LAMP ▲ELECTRONIC TRANSFORMER

▲ELECTONIC TRANSFORMER ▲SWICH MODE POWER SUPPLY

● 最大额定值 Absolute Maximum Ratings (Tc=25°C)

参数 PARAMETER	符号 SYMBOL	额定值 VALUE	单位 UNIT
集电极-基极电压 Collector-Base Voltage	V _{CB0}	400	
集电极-发射极电压 Collector-Emitter Voltage	V _{CEO}	200	V
发射极-基极电压 Emitter-Base Voltage	V _{EBO}	9	V
集电极电流 Collector Current	I _C	1.5	A
集电极耗散功率 Total Power Dissipation @TC=25°C	P _{DTOT}	11	W
最高工作温度 Junction Temperature	T _J	150	°C
贮存温度 Storage Temperature	T _{STG}	-65-150	°C



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● 电特性 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-基极截至电流 Collector-Base Cutoff Current	I _{CB0}	V _{CB} =400V I _E =0		100	μA
集电极-发射极截至电流 Collector-Emitter Cutoff Current	I _{CEO}	V _{CE} =200V I _B =0		100	uA
发射极-基极截至电流 Emitter-Base Cutoff Current	I _{EBO}	V _{EB} =9V, I _C =0		100	uA
集电极-基极打压 Collector-Base Voltage	BV _{CB0}	I _C =1mA, I _B =0	400		V
集电极-发射极电压 Collector-Emitter Voltage	BV _{CEO}	I _C =10mA, I _E =0	200		V
发射极-基极电压 Emitter-Base Voltage.	BV _{EBO}	I _C =1mA, I _C =0	9		V
集电极-发射极饱和电压 Collector-Emitter Saturation Voltage	V _{cesat}	I _C =1A I _b =0.5A		1.5	V
		I _C =0.5A I _b =0.1A		0.5	V
基极-发射极饱和电压 Base-Emitter Saturation Voltage	V _{besat}	I _C =1A I _b =0.5A		1.5	V
电流放大倍数 DC Current Gain	HFE	I _C =0.1A V _{CE} =5V	10	40	
		I _C =1mA V _{CE} =5V	7		
贮存时间 Storage Time	T _s	I _C =0.25A (UI9600)	1.5	3.5	us



●放大倍数和 Ts 分档 CLASSIFICATION OF HFE AND TS

HFE	10-15	15-20	20-25	25-30
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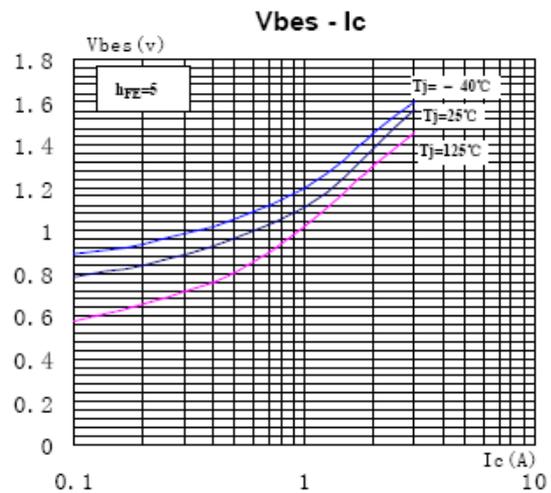
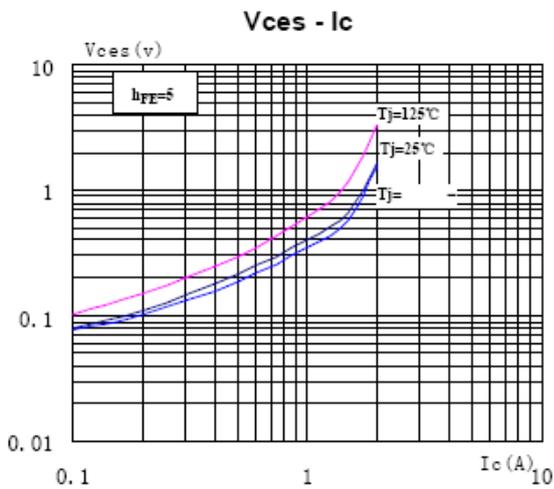
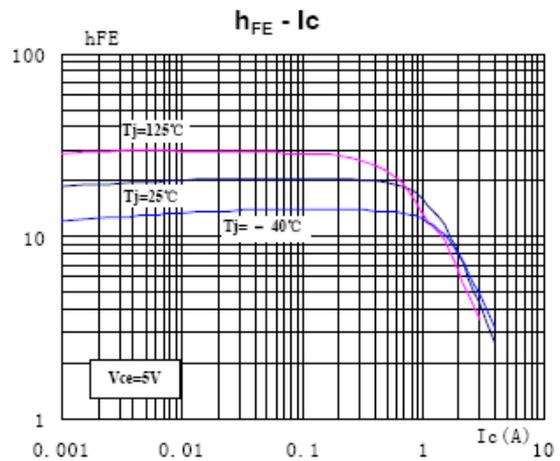
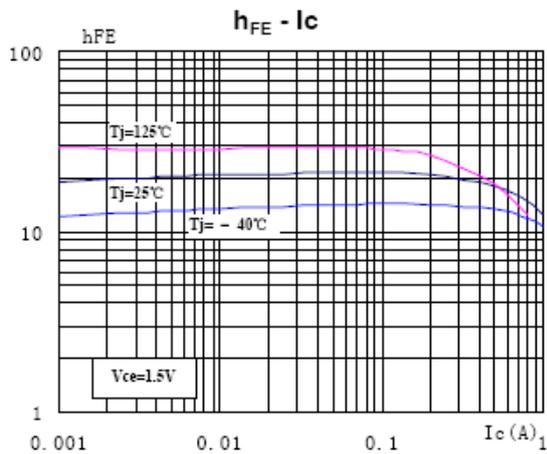
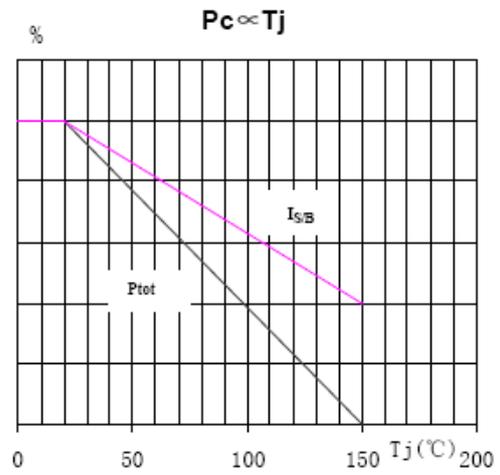
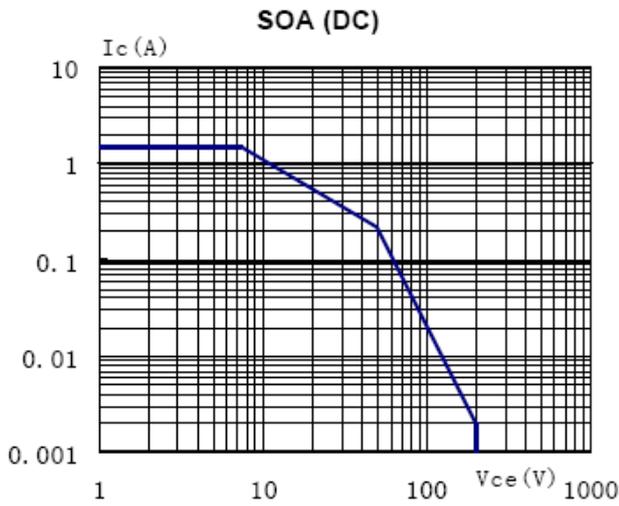
TS	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5
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●The name and content of poisonous and harmful material in prouducts

部件名称 Part's Name 含量要求 CONTENT	有毒有害物质或元素 hazardous substance					
	铅 Pb	汞 Hg	镉 Cd	铬 Cr(VI)	多溴联苯 PBB	多溴二苯醚 PBDE
	≤0.1%	≤0.1%	≤0.01%	≤0.1%	≤0.1%	≤0.1%
引线 Lead Frame	○	○	○	○	○	○
塑封树脂 Moding Compound	○	○	○	○	○	○
芯片 Chip	○	○	○	○	○	○
焊线 Wire Bonding	○	○	○	○	○	○
焊料 Solder	×	○	○	○	○	○
说明 Note	<p>○：表示该元素的含量在 SJ/T11363-2006 标准的限量要求一下 ○： means the hazardous material is under the criterion of SJ/T11363-2006. ×：表示该元素的焊料超出 SJ/T11363-2006 标准的限量要求。 ×： means the hazardous material exceeds the criterion of SJ/T11363-2006. 目前产品的焊料中含有铅成分，但属于欧盟 RoHS 指令豁免范围。 The plumbum element of solder exist in products presently, but within the allowed range of Eurogroup's ROHS.</p>					



● 特性曲线 TYPICAL CHARACTERISTICS





●机械尺寸 MECHANICAL DIMENSIONS

TO-92 MECHANICAL DATA

SYMBOL	Min	Nom	Max
A	4.3		5.3
b	0.3		
c	0.3		
D	4.3		5.2
d	1.0		1.7
E	3.2		4.2
e		2.54	
e1		1.27	
L	12.7		
L1			2.0

