

用途：用于电子荧光灯和低功率快速转换。

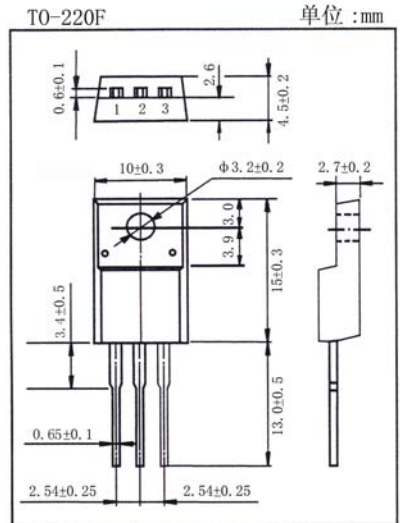
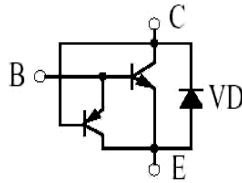
Purpose: Electronic ballasts for fluorescent lighting, flyback and forward single transistor low power converters.

特点：耐压高、稳定性好、N沟道晶体管，一致性好、可靠性高，开关速度快。

Features: NPN transistor, high voltage capability, low spread of dynamic parameters, minimum lot-to-lot spread for Reliable operation, very high switching speed.

极限参数/Absolute maximum ratings (Ta=25°C)

参数符号 Symbol	数值 Rating	单位 Unit
V <sub>CB0</sub>	700	V
V <sub>CE0</sub>	400	V
V <sub>EBO</sub>	9.0	V
I <sub>C</sub>	4.0	A
P <sub>C</sub>	2.0	W
P <sub>C</sub> (T <sub>c</sub> =25°C)	75	W
T <sub>j</sub>	150	°C
T <sub>stg</sub>	-55~150	°C

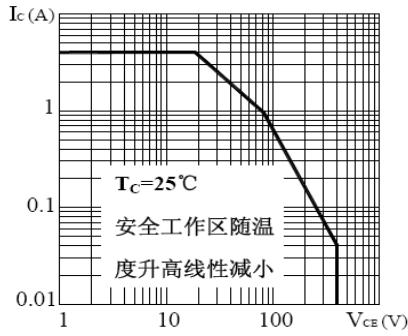


引脚： 1. B 2. C 3. E

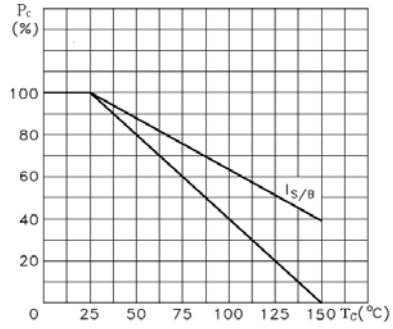
电性能参数/Electrical characteristics (Ta=25°C)

参数符号 Symbol	测试条件 Test condition		数值 Rating			单位 Unit
			最小值 Min	典型值 Typ	最大值 Max	
V <sub>CB0</sub>	I <sub>C</sub> =1mA	I <sub>E</sub> =0	700			V
V <sub>CE0</sub>	I <sub>C</sub> =10mA	I <sub>B</sub> =0	400			V
V <sub>EBO</sub>	I <sub>E</sub> =1mA	I <sub>C</sub> =0	9.0			V
I <sub>CB0</sub>	V <sub>CB</sub> =700V	I <sub>E</sub> =0			0.1	mA
I <sub>CE0</sub>	V <sub>CE</sub> =400V	I <sub>B</sub> =0			0.1	mA
I <sub>EBO</sub>	V <sub>EB</sub> =9.0V	I <sub>C</sub> =0			0.1	mA
h <sub>FE</sub>	V <sub>CE</sub> =5.0V	I <sub>C</sub> =1.0A	10		40	
V <sub>CE(sat)</sub>	I <sub>C</sub> =2.0A	I <sub>B</sub> =0.5A			0.8	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =2.0A	I <sub>B</sub> =0.5A			1.2	V
f <sub>T</sub>	V <sub>CE</sub> =10V	I <sub>C</sub> =0.5A	f=1.0MHz	7.0		MHz
t <sub>f</sub>	V <sub>CE</sub> =5V	I <sub>C</sub> =0.5A			0.8	μs
t <sub>s</sub>	(UI9600)				4.0	μs

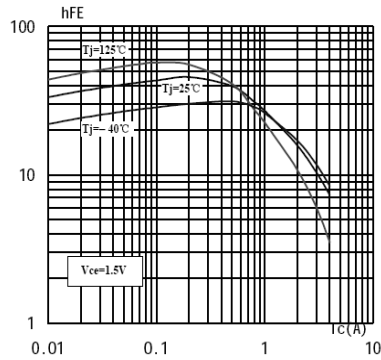
SOA (DC)



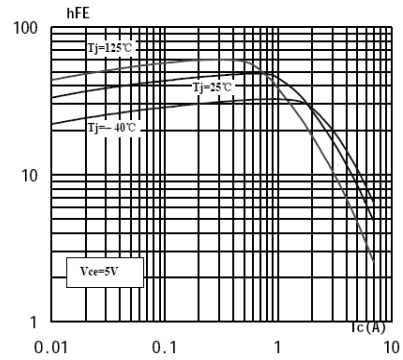
$P_c - T_c$



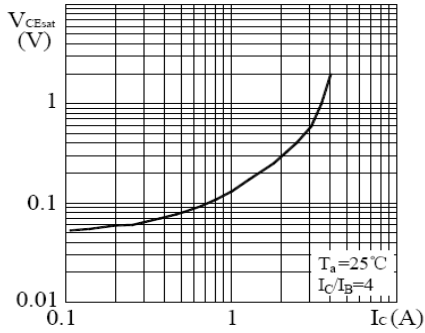
$h_{FE} - I_c$



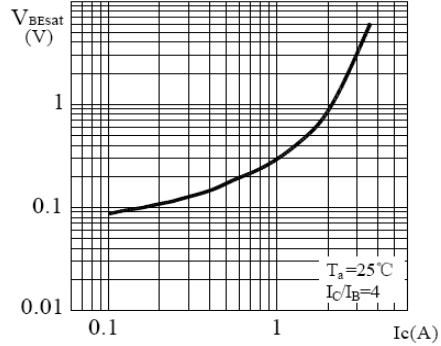
$h_{FE} - I_c$



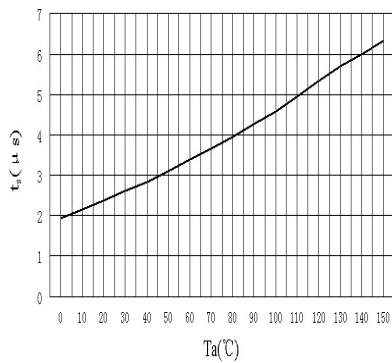
$V_{CEsat} - I_c$



$V_{BEsat} - I_c$



$t_s - T_a$



$h_{FE} - T_a$

