

**BLD128DA**

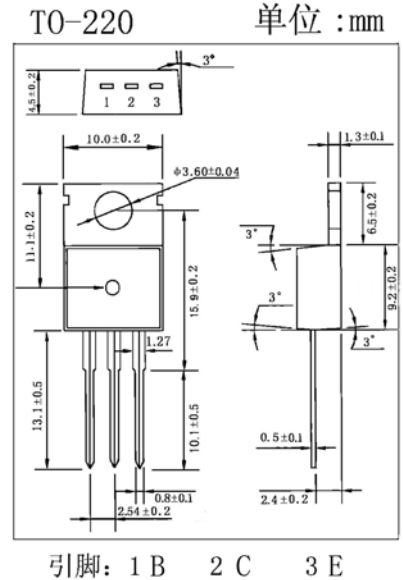
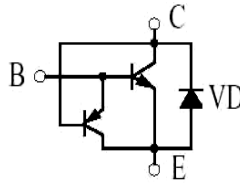
**硅 NPN 半导体三极管/SILICON NPN TRANSISTOR**

用途：用于节能灯、电子镇流器、电子变压器，开关电源。/ Purpose: Fluorescent lamp, electronics ballast, electronic transformer, switch mode power supply.

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.

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

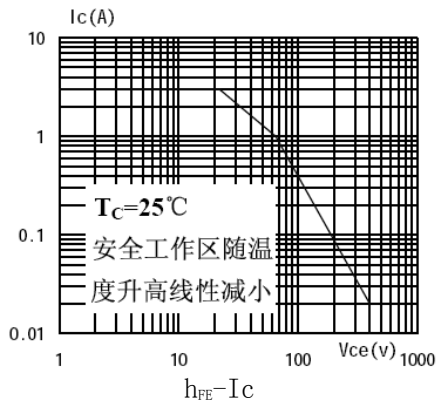
参数符号 Symbol	数值 Rating	单位 Unit
V <sub>CB0</sub>	700	V
V <sub>CE0</sub>	400	V
V <sub>EBO</sub>	9	V
I <sub>C</sub>	3	A
P <sub>C</sub> (Ta=25°C)	2	W
P <sub>C</sub> (Tc=25°C)	65	W
T <sub>j</sub>	150	°C
T <sub>stg</sub>	-55~150	°C



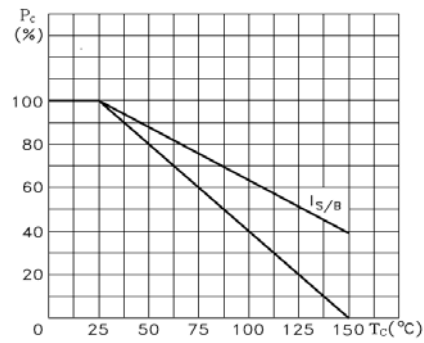
电性能参数/Electrical characteristics(Ta=25°C)

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			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> =9V I <sub>C</sub> =0			0.1	mA
h <sub>FE(1)</sub>	V <sub>CE</sub> =5V I <sub>C</sub> =1A	10		40	
h <sub>FE(2)</sub>	V <sub>CE</sub> =5V I <sub>C</sub> =3A	5			
h <sub>FE(3)</sub>	V <sub>CE</sub> =5V I <sub>C</sub> =10mA	7			
V <sub>CE(sat) (1)</sub>	I <sub>C</sub> =1A I <sub>B</sub> =0.2A			0.5	V
V <sub>CE(sat) (2)</sub>	I <sub>C</sub> =2A I <sub>B</sub> =0.5A			1	V
V <sub>CE(sat) (3)</sub>	I <sub>C</sub> =0.5A I <sub>B</sub> =0.1A			0.7	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =1A I <sub>B</sub> =0.2A			1.5	V
t <sub>s</sub>	V <sub>CE</sub> =5V I <sub>C</sub> =0.5A (UI9600)	1.5		5	μs
t <sub>f</sub>				0.8	
f <sub>T</sub>	V <sub>CE</sub> =10V I <sub>C</sub> =0.2A f=1MHZ	5			MHZ

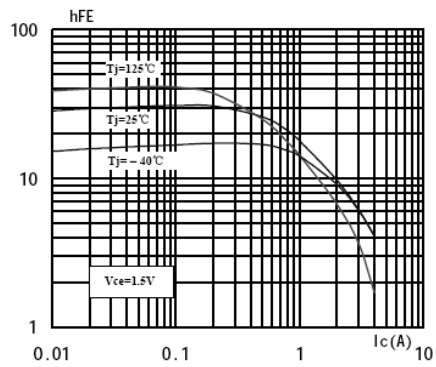
SOA (DC)



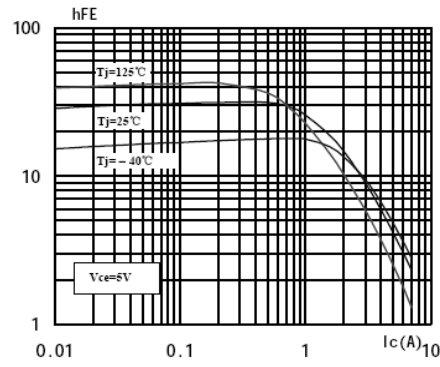
$P_c-T_c$



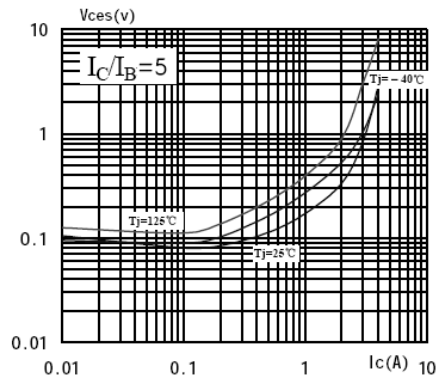
$h_{FE}-I_c$



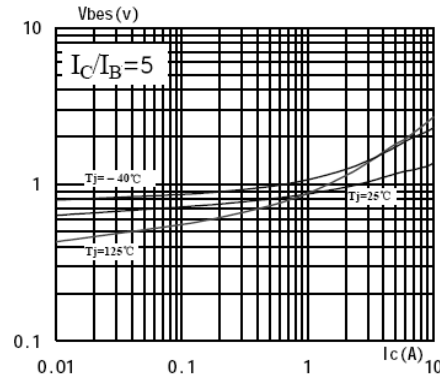
$h_{FE}-I_c$



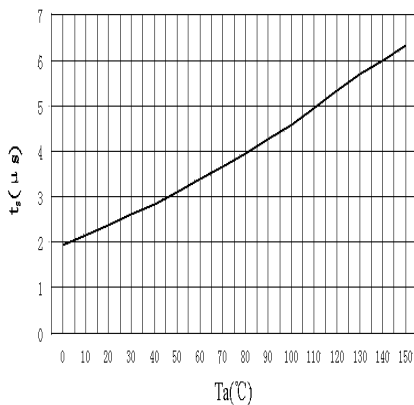
$V_{ces}-I_c$



$V_{bes}-I_c$



$t_s-T_a$



$h_{FE}-T_a$

