

STBV32

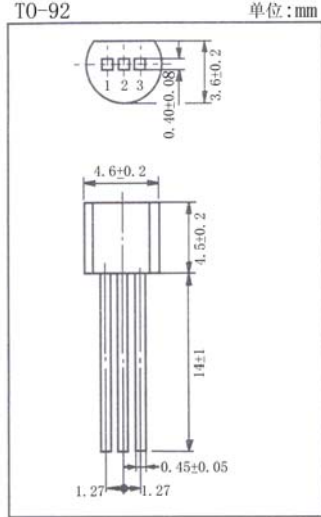
硅 NPN 半导体三极管/SILICON NPN TRANSISTOR

用途：主要用于节能灯、日光灯电子镇流器及其它开关、振荡电路。/Purpose: High frequency electronic lighting ballast applications, converters, inverters, switching regulators, etc.

特点：高压性能好，低动态参数变化，开关速度快。/Features: High voltage capability; Low spread of dynamic parameters; 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>CES</sub>	700	V
V <sub>CEO</sub>	400	V
V <sub>EBO</sub>	9.0	V
I <sub>C</sub>	1.5	A
I <sub>CM</sub>	3.0	A
I <sub>B</sub>	0.5	A
I <sub>BM</sub>	1.5	A
P <sub>C</sub> (Ta=25°C)	1.0	W
T <sub>j</sub>	150	°C
T <sub>stg</sub>	-55~150	°C



引脚: 1.E 2.C 3.B

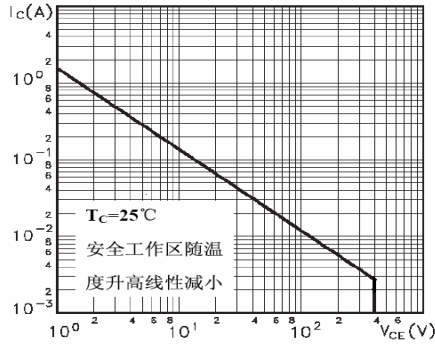
电性能参数/Electrical characteristics(Ta=25°C)

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>CES</sub>	I <sub>C</sub> =1mA	V <sub>BE</sub> =0	700			V
V <sub>CEO</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>CEV</sub>	V <sub>CE</sub> =700V	V <sub>BE</sub> =-1.5V			0.1	mA
I <sub>CEO</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(1)</sub>	V <sub>CE</sub> =2.0V	I <sub>C</sub> =0.5A	10		35	
h <sub>FE(2)</sub>	V <sub>CE</sub> =2.0V	I <sub>C</sub> =1.0A	5		25	
*V <sub>CE(sat)1</sub>	I <sub>C</sub> =500mA	I <sub>B</sub> =100mA			0.5	V
*V <sub>CE(sat)2</sub>	I <sub>C</sub> =1.0A	I <sub>B</sub> =250mA			1.0	V
*V <sub>CE(sat)3</sub>	I <sub>C</sub> =1.5A	I <sub>B</sub> =500mA			1.5	V
*V <sub>BE(sat)1</sub>	I <sub>C</sub> =500mA	I <sub>B</sub> =100mA			1.0	V
*V <sub>BE(sat)2</sub>	I <sub>C</sub> =1.0A	I <sub>B</sub> =250mA			1.2	V
t <sub>f</sub>	V <sub>CE</sub> =5V	I <sub>C</sub> =0.25A			0.6	μs
t <sub>s</sub>	(UI9600)				3.0	μs
f <sub>T</sub>	V <sub>CE</sub> =10V	I <sub>C</sub> =0.1A	f=1MHz	5		MHz

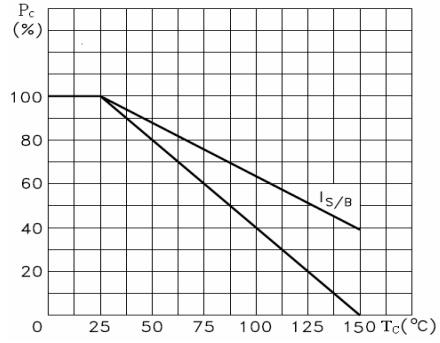
\*脉冲测试：脉冲周期=300 μs，占空比=1.5%。

\*Pulsed:Pulsed duration=300 μs, duty cycle≤1.5%.

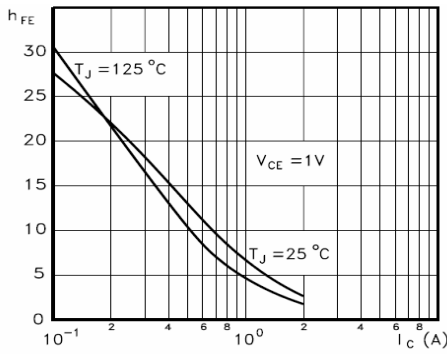
SOA (DC)



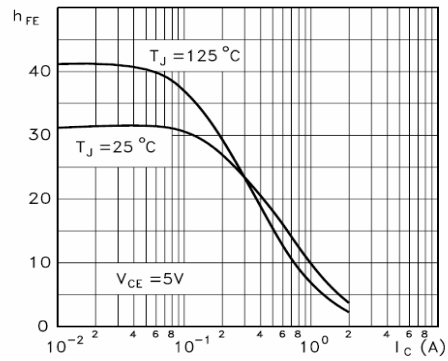
P<sub>C</sub>-T<sub>C</sub>



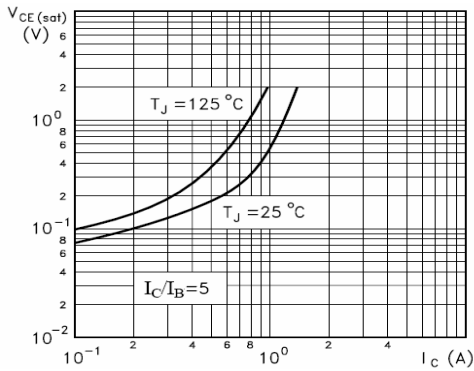
h<sub>FE</sub>-I<sub>C</sub>



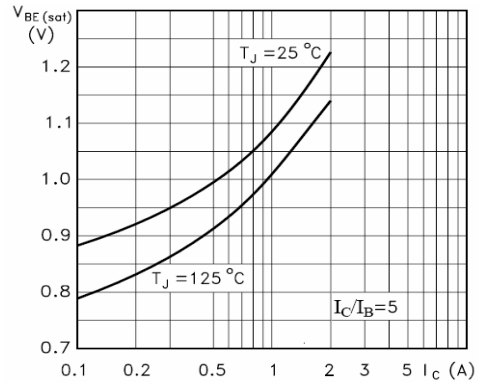
h<sub>FE</sub>-I<sub>C</sub>



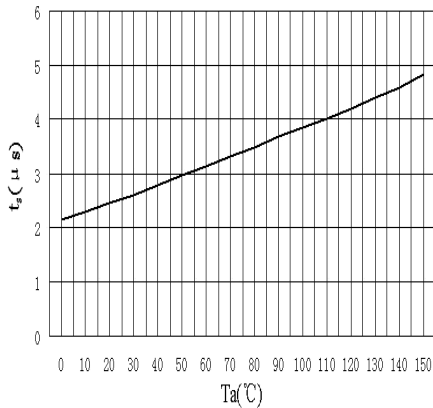
V<sub>ces</sub>-I<sub>C</sub>



V<sub>bes</sub>-I<sub>C</sub>



t<sub>s</sub>-T<sub>a</sub>



h<sub>FE</sub>-T<sub>a</sub>

