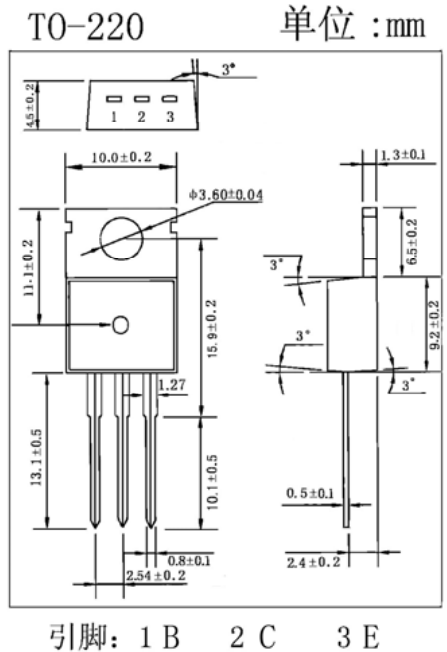


NPN SILICON POWER TRANSISTORS

Purpose: High frequency electronic lighting ballast applications.

Absolute maximum ratings (Ta=25°C)

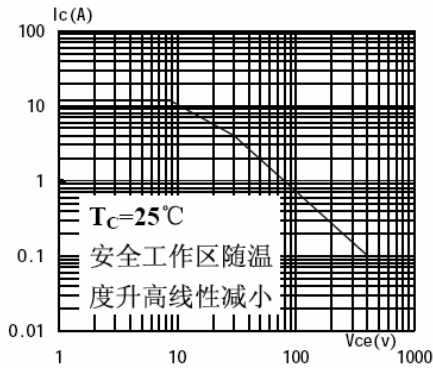
Symbol	Rating	Unit
V _{CBO}	700	V
V _{CEO}	400	V
V _{EBO}	9.0	V
I _C	12	A
P _C (Ta=25°C)	2.0	W
P _C (Tc=25°C)	100	W
T _j	150	°C
T _{stg}	-55~150	°C



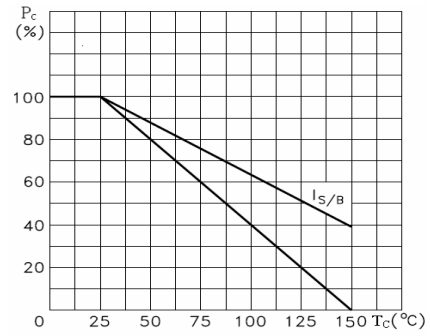
Electrical characteristics (Ta=25°C)

Symbol	Test condition	Rating			Unit
		Min	Typ	Max	
V _{CBO}	I _C =1mA I _E =0	700			V
V _{CEO}	I _C =10mA I _B =0	400			V
V _{EBO}	I _E =1mA I _C =0	9.0			V
I _{CBO}	V _{CE} =700V I _E =0			0.1	mA
I _{CEO}	V _{CE} =400V I _B =0			0.1	mA
I _{EBO}	V _{EB} =9.0V I _C =0			0.1	mA
h _{FE}	V _{CE} =5.0V I _C =5.0A	10		40	
V _{CE(sat)}	I _C =8.0A I _B =1.6A			1.2	V
V _{BE(sat)}	I _C =8.0A I _B =1.6A			1.6	V
f _T	V _{CE} =10V I _C =0.5A f=1.0MHz	5.0			MHz
t _f	V _{CE} =5V I _C =0.5A			0.5	μs
t _s	(UI9600)	4.0		12	μs

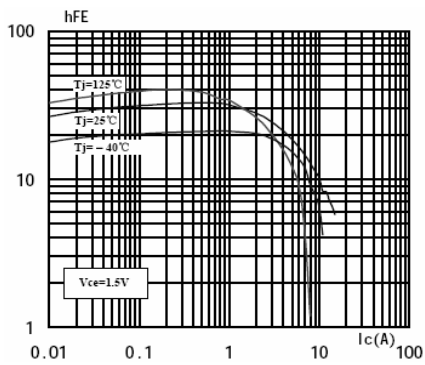
SOA (DC)



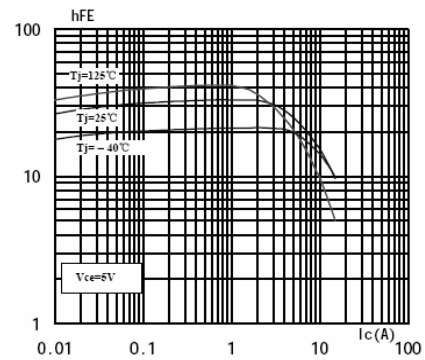
$P_c - T_c$



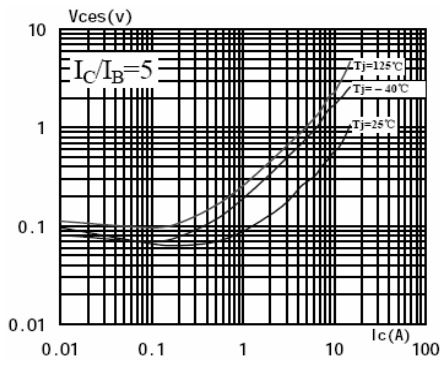
$h_{FE} - I_c$



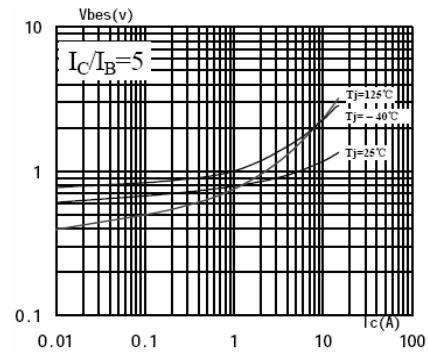
$h_{FE} - I_c$



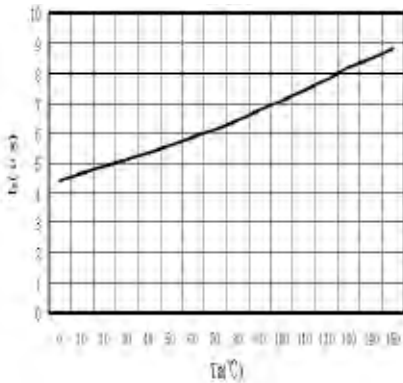
$V_{ces} - I_c$



$V_{bes} - I_c$



$t_s - T_a$



$h_{FE} - T_a$

