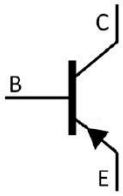
Silicon PNP transistor in a TO-92(R) Plastic Package.

High Voltage, Low Noise.

Low noise amplifier application.

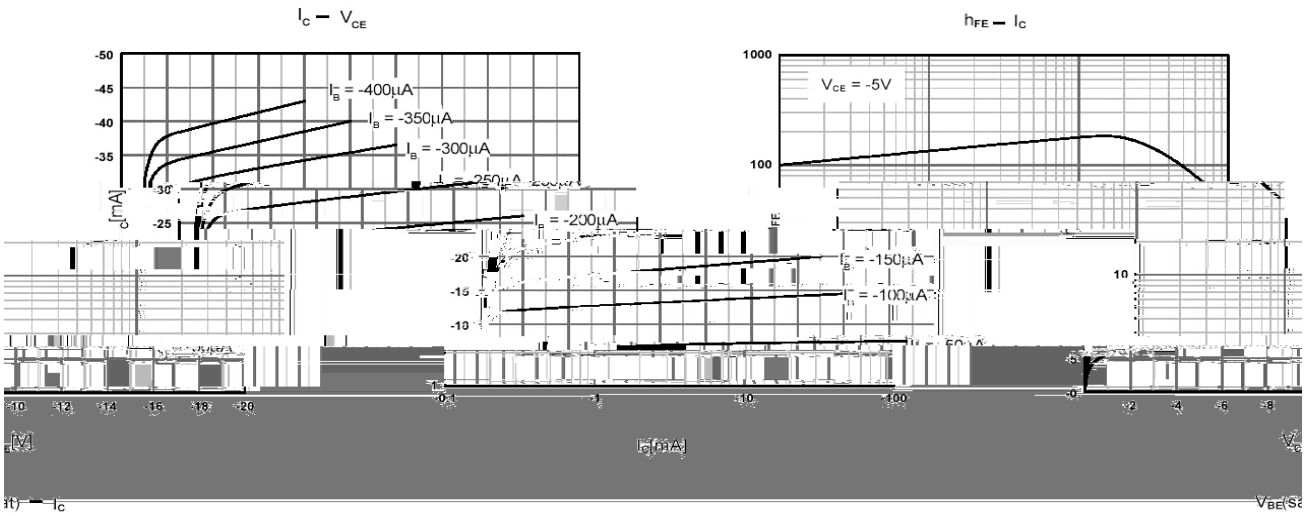


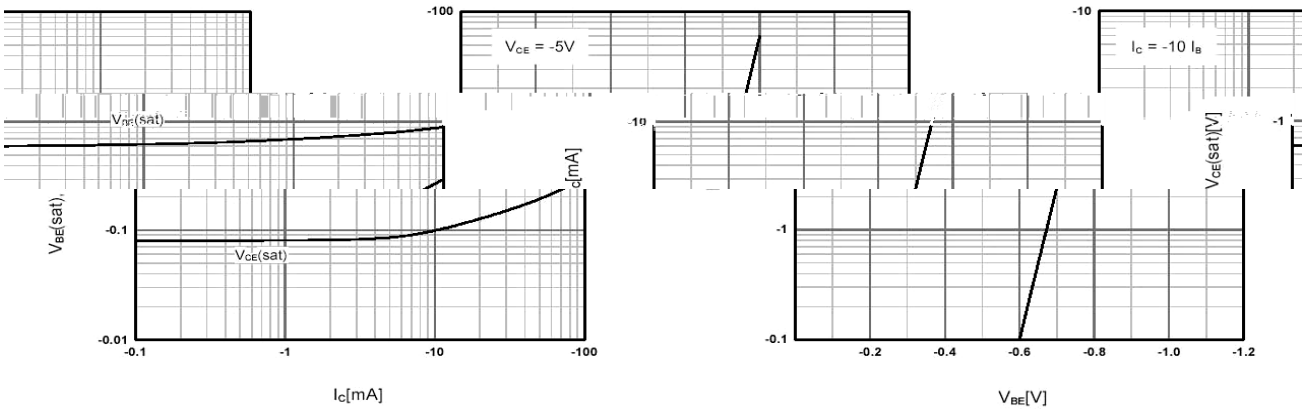
PIN1 Emitter PIN 2 Base PIN 3 Collector

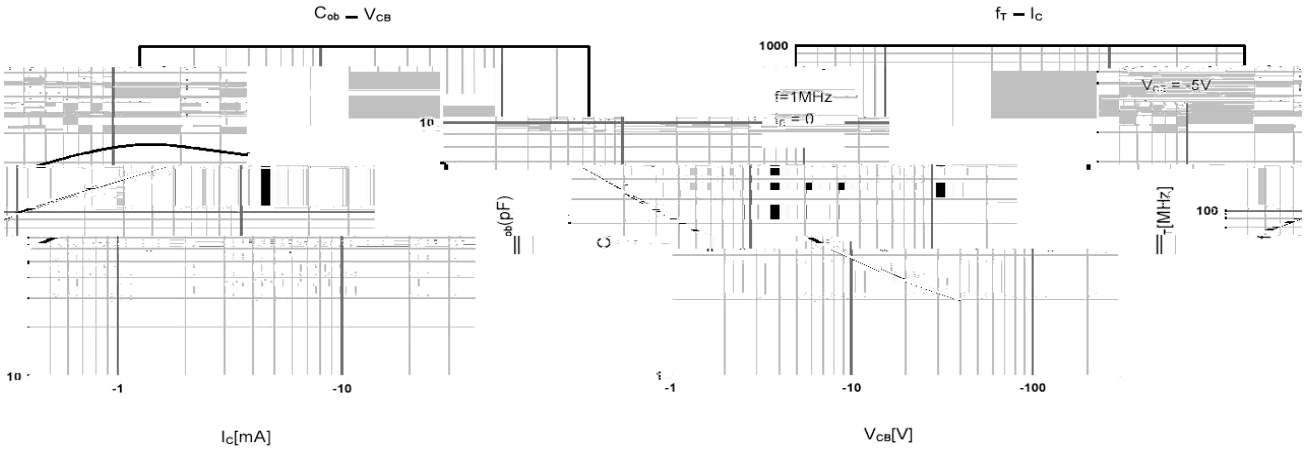
h_{FE} Classifications Symbol	A	B
h_{FE} Range	110～220	200～450

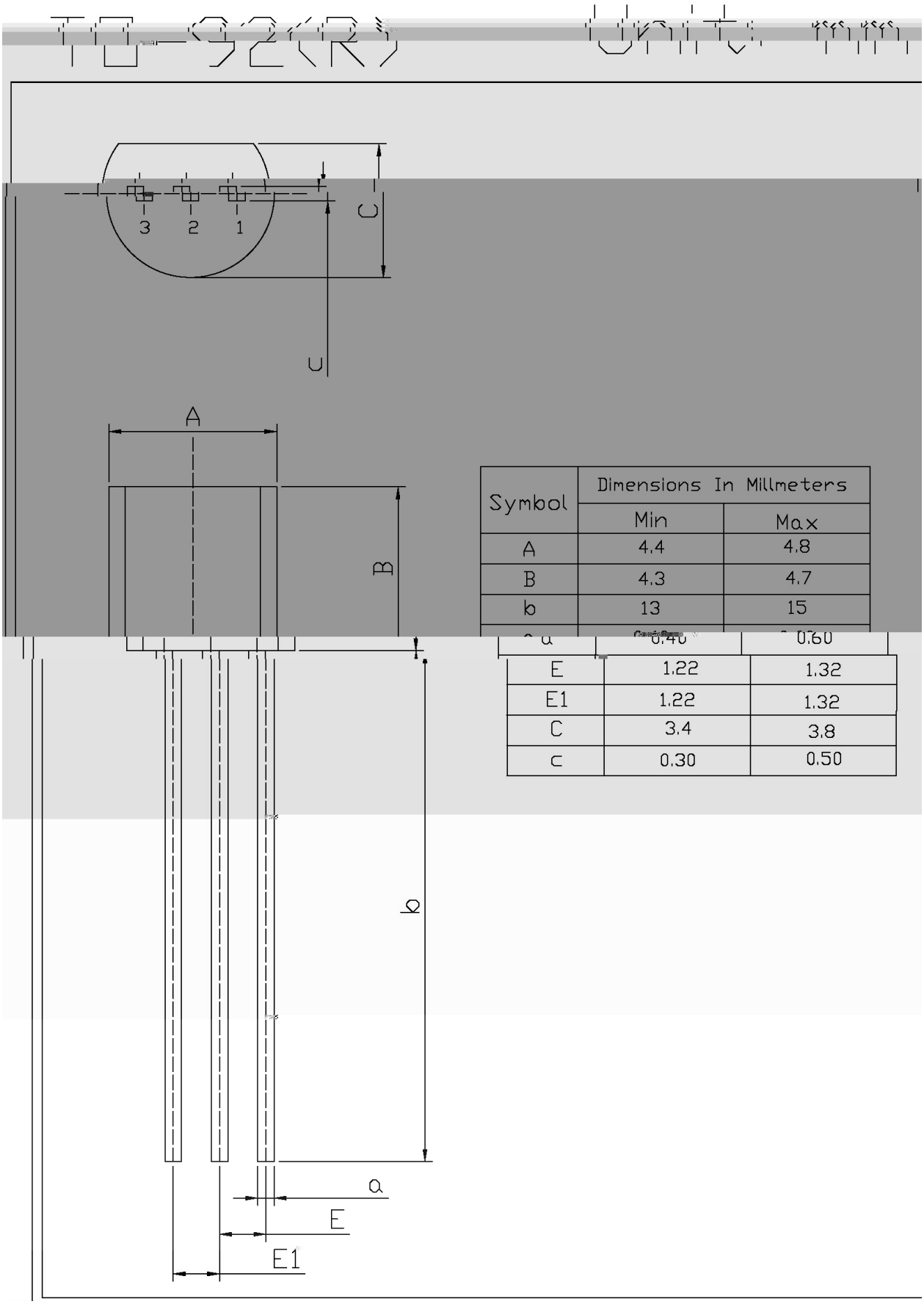
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-50	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55～150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA I_B=0	-45			V
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-10 A I_E=0	-50			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-10 A I_C=0	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-30V I_E=0			-0.015	A
DC Current Gain	h_{FE}	V_{CE}=-5.0V I_C=-2.0mA	110		450	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-100mA I_B=-5.0mA			-0.6	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-100mA I_B=-5.0mA		-0.9		V
Base-Emitter Voltage	$V_{BE(on)}$	V_{CE}=-5.0V I_C=-2.0mA	-0.55		-0.7	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-10mA f=100MHz		300		MHz
Current Gain Bandwidth Product	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz			7.0	pF
Noise Figure	NF	V_{CE}=-5.0V R_g=10K I_C=-200 A f=1.0KHz			4.0	dB

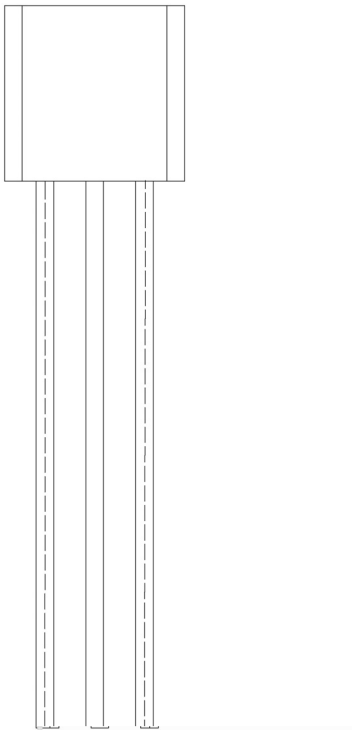

I_C — V_{CE}
h_{FE} — I_C
I_B = -400μA
I_B = -350μA
I_B = -300μA
I_B = -250μA
I_B = -200μA
I_B = -150μA
I_B = -100μA
I_B = -50μA
V_{CE} = -5V
I_C[mA]
I_C[mA]

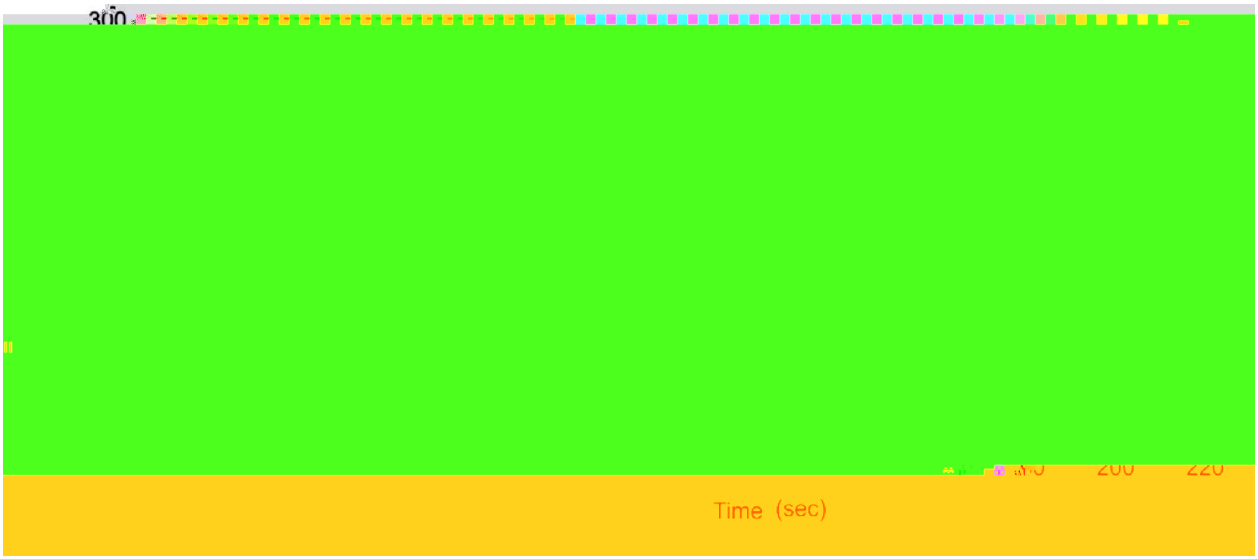

I_C — V_{BE}
V_{CE} = -5V
I_C = -10 I_B
$V_{BE(sat)}$
$V_{CE(sat)}$
I_C[mA]
V_{BE}[V]


C_{ob} — V_{CB}
f_T — I_C
f=1MHz
I_E = 0
V_{CE} = -5V
C_{ob}(pF)
f_T[MHz]
I_C[mA]
V_{CB}[V]



Symbol	Dimensions In Millmeters	
	Min	Max
A	4.4	4.8
B	4.3	4.7
b	13	15
a	0.40	0.60
E	1.22	1.32
E1	1.22	1.32
C	3.4	3.8
c	0.30	0.50





1 25 150 60 90sec;	1.Preheating:25~150 , Time:60~90sec.
2 255 5 5 0.5sec;	2.Peak Temp.:255 5 , Duration:5 0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

Note:

270 5 10 1 sec. Temp.:270±5 Time:10±1 sec

/ BULK

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)		
	只 袋	袋 盒	只 盒	盒 箱	只 箱	袋	盒	箱

/ AMMO

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm3)	
	只 纸带	纸带 盒	纸带层 盒	盒 箱	只 箱	盒	箱
							小箱 , 大箱