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

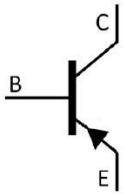
Features

High Voltage, Low Noise.

Applications

General purpose and switching application.

Pin Configuration



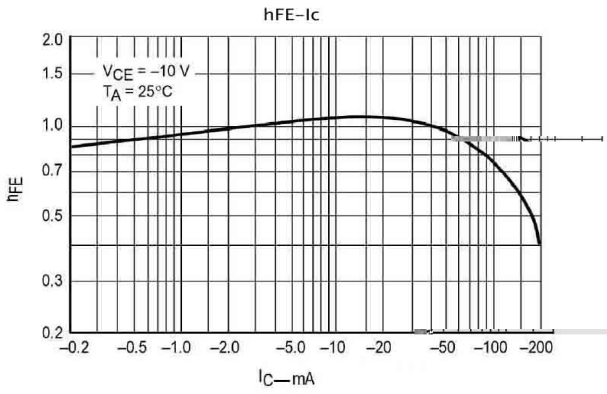
PIN1 Emitter PIN 2 Base PIN 3 Collector

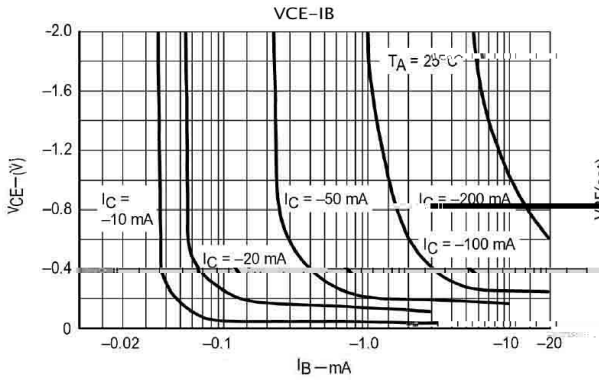
Classification of h_{FE}

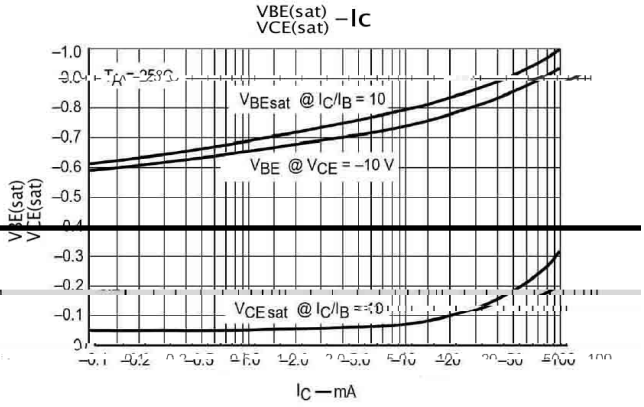
h_{FE} Classifications Symbol	A	B	C
h_{FE} Range	125 250	220 475	420 800

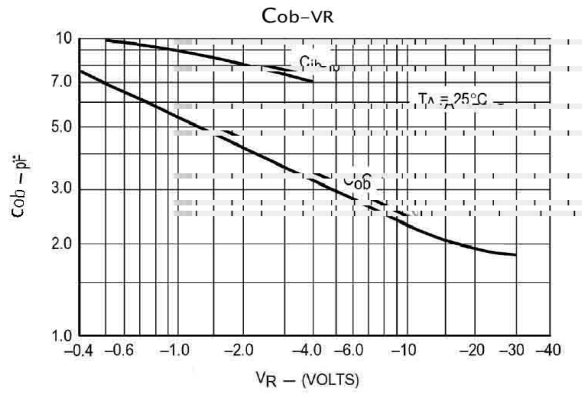
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-30	V
Collector to Emitter Voltage	V_{CEO}	-30	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-100	mA
Emitter Current - Continuous	I_E	100	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

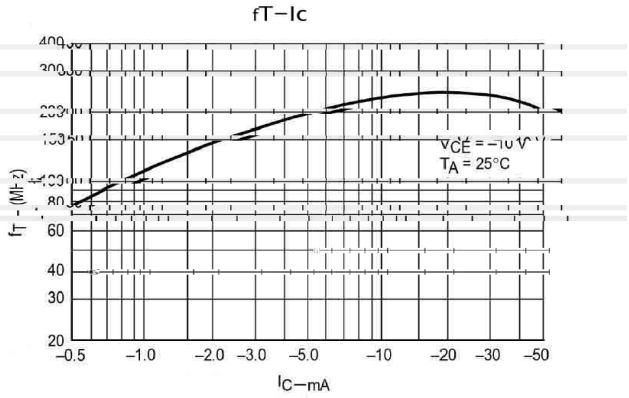
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=-30V I_E=0			-0.015	μA
DC Current Gain	h_{FE}	V_{CE}=-5.0V I_C=-2.0mA	125		800	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-100mA I_B=-5.0mA			-0.65	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-100mA I_B=-5.0mA		-0.9	-1.1	V
Base-Emitter Voltage	$V_{BE(1)}$	V_{CE}=-5.0V I_C=-2.0mA	-0.6		-0.75	V
	$V_{BE(2)}$	V_{CE}=-5.0V I_C=-10mA			-0.8	V
Current Gain Bandwidth Product	f_T	V_{CE}=-5.0V I_C=-10mA f=100MHz		150		MHz
Transition Frequency	C_{ob}	V_{CB}=-10V f=1.0MHz		4.5		pF
Noise Figure	NF	V_{CE}=-6.0V I_C=-0.1mA R_g=10KΩ f=1.0KHz		1.0	10	dB

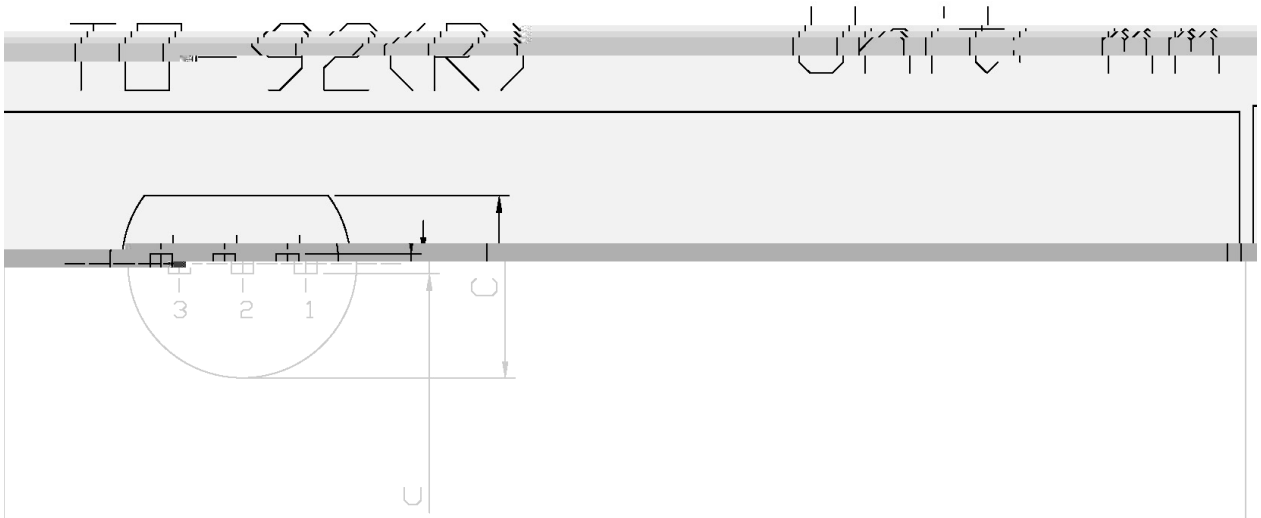

hFE–Ic
VCE = –10 V
TA = 25°C
hFE
IC—mA


VCE–IB
TA = 25°C
IC = –10 mA
IC = –20 mA
IC = –50 mA
IC = –200 mA
IC = –100 mA
VCE–(V)
IB—mA

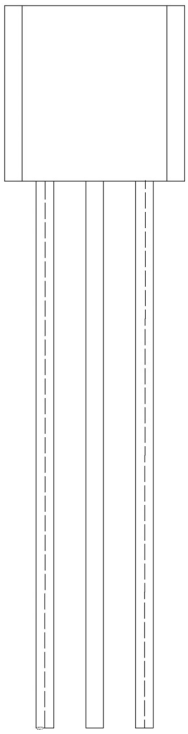

VBE(sat) VCE(sat) –Ic
VBEsat @ IC/IB = 10
VBE @ VCE = –10 V
VCEsat @ IC/IB = 10
VBE(sat) VCE(sat)
IC —mA

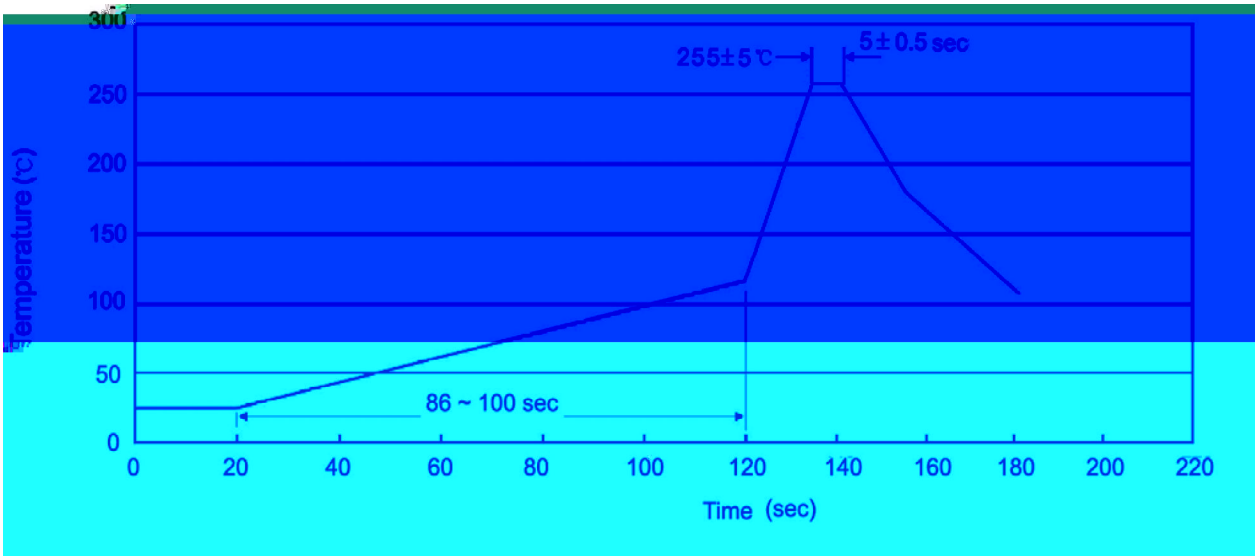

Cob–VR
Cib
TA = 25°C
Cob
Cob – pF
VR – (VOLTS)


fT–Ic
VCE = –10 V
TA = 25°C
fT – (MHz)
IC—mA



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





		Note:	
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.	

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