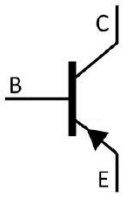
Silicon PNP transistor in a TO-92 Plastic Package.

High P_C and I_C.

Medium power amplifier applications.

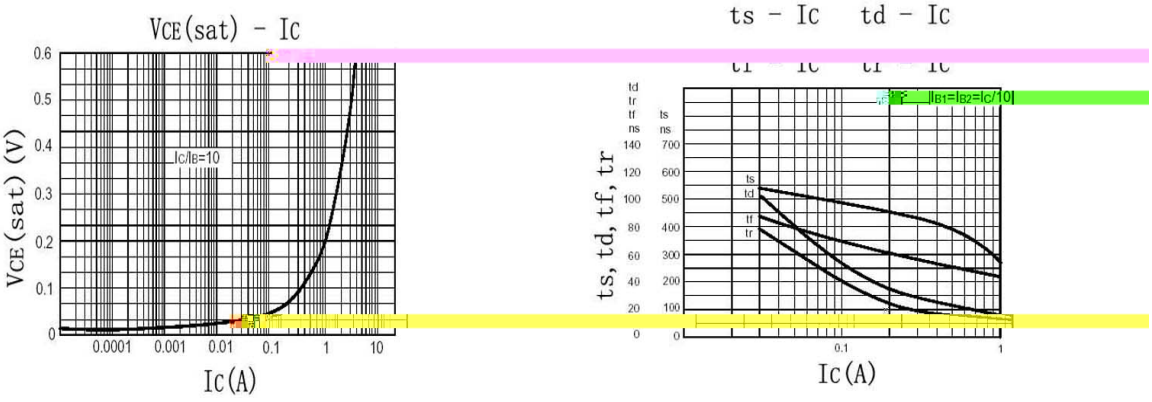


PIN1 Collector PIN 2 Base PIN 3 Emitter

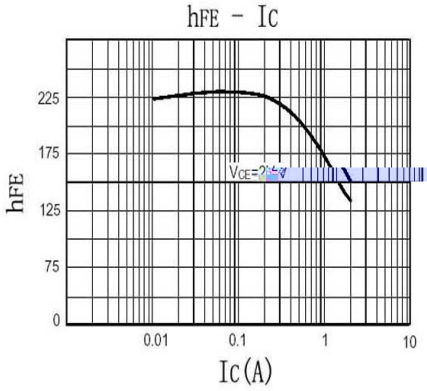
See Marking Instructions.

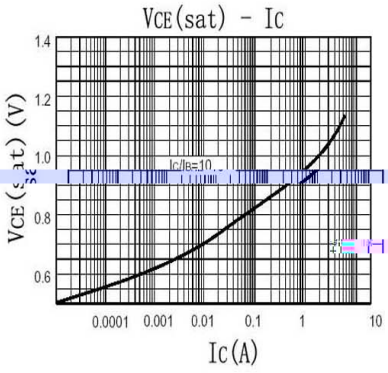
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-2.0	A
Peak Collector Current- Continuous	I_{CM}	-6.0	A
Collector Power Dissipation	P_C	1.0	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

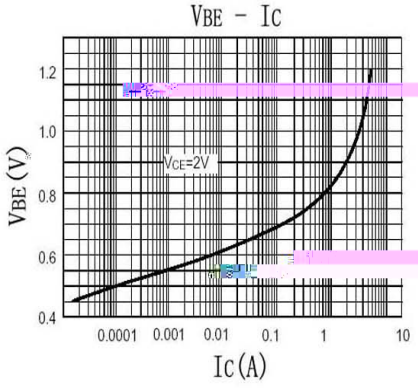
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	I_C=-100 A	-60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	I_C=-10mA	-45			V
Emitter to Base Breakdown Voltage	V_{EBO}	I_E=-100 A	-5.0			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-45V I_E=0			-0.1	A
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-4.0V I_C=0			-0.1	A
DC Current Gain	h_{FE}	I_C=-500mA V_{CE}=-2.0V	100		300	
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	I_C=-1.0A I_B=-100mA		-0.15	-0.3	V
	$V_{CE(sat)(2)}$	I_C=-2.0A I_B=-200mA		-0.28	-0.5	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-1.0A I_B=-100mA		-0.9	-1.25	V
Transition Frequency	f_T	V_{CE}=-5.0V I_C=-100mA f=100MHz	100	140		MHz
Output Capacitance	C_{ob}	V_{CB}=-10V f=1.0MHz			30	pF
Turn-On Time	T_{on}	V_{CC}=-10V I_C=-500mA I_{B1}=I_{B2}=-50mA		40		ns
Turn-Off Time	T_{off}	V_{CC}=-10V I_C=-500mA I_{B1}=I_{B2}=-50mA		450		ns

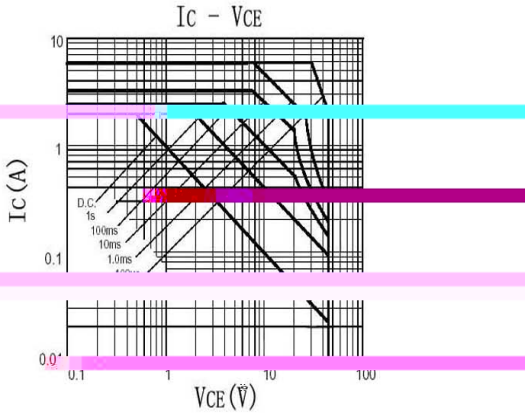

VCE(sat) - Ic
VCE(sat) (V)
IC/IB=10
Ic(A)

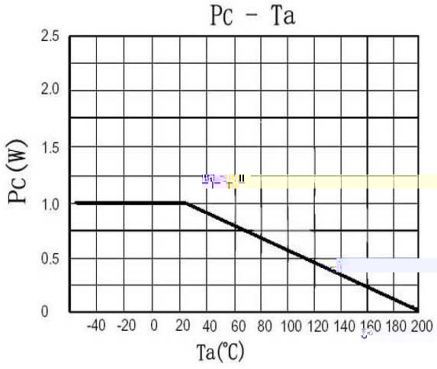
ts - Ic td - Ic
ts, td, tf, tr
IB1=IB2=Ic/10
ts
td
tf
tr
Ic(A)


hFE - Ic
hFE
VCE=2V
Ic(A)

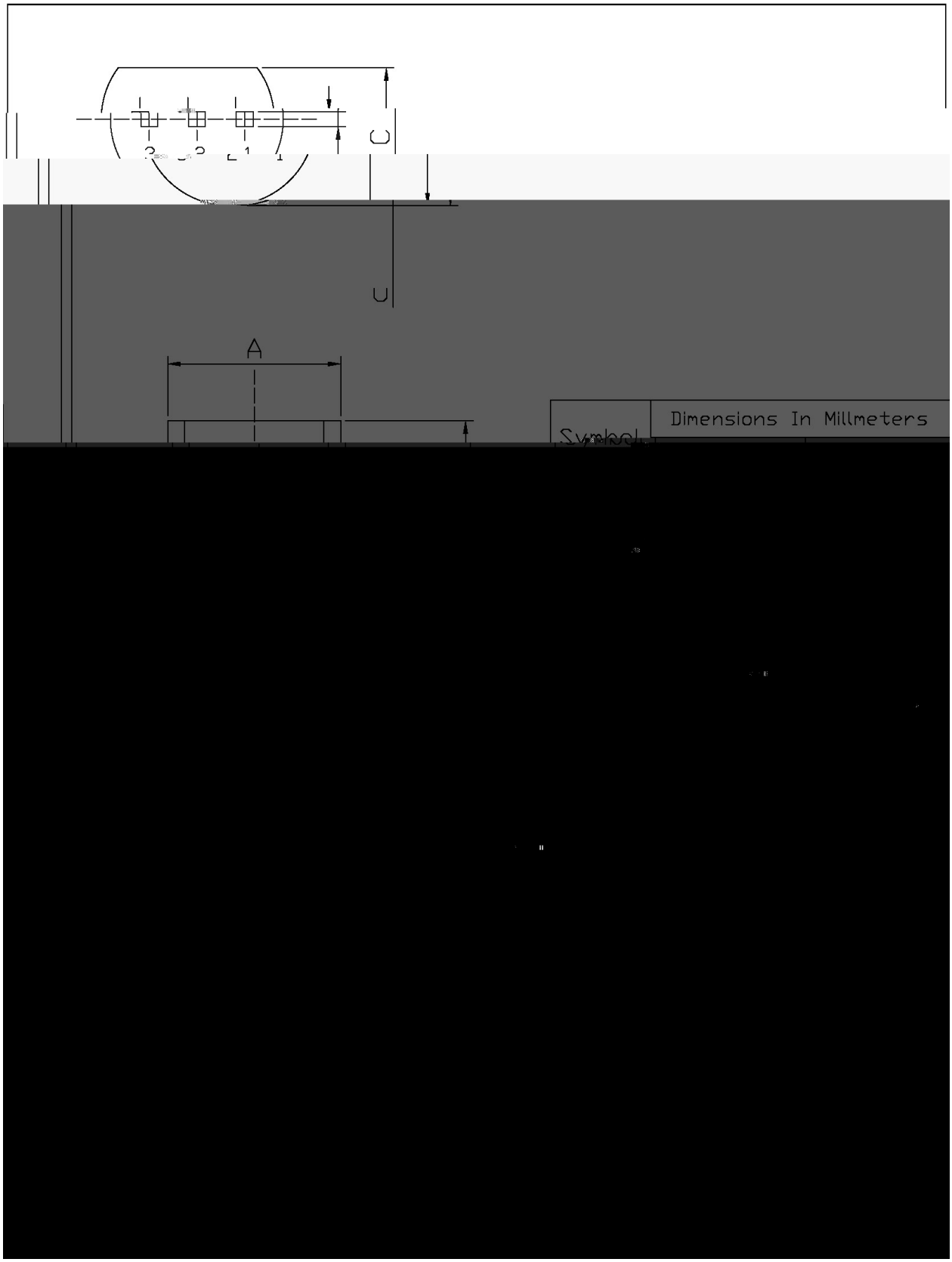

VCE(sat) - Ic
VCE(sat) (V)
IC/IB=10
Ic(A)

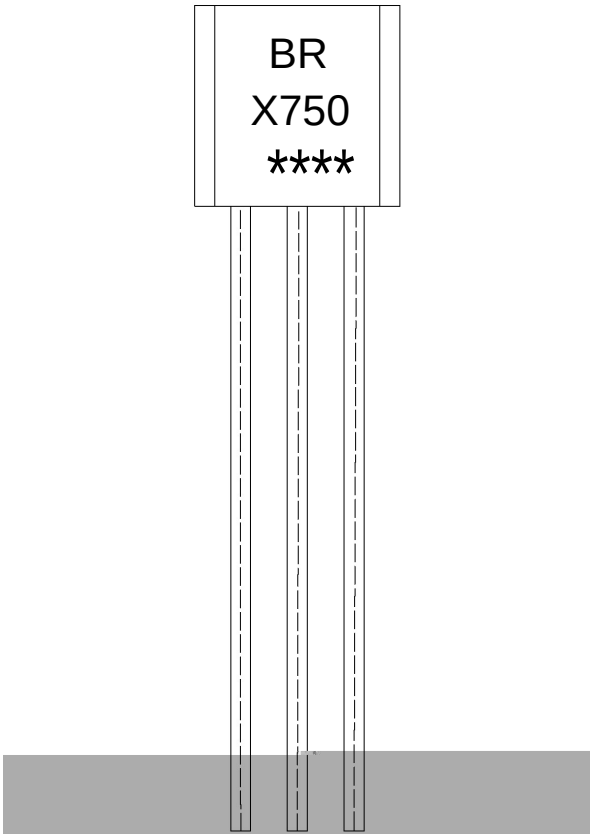

VBE - Ic
VBE (V)
VCE=2V
Ic(A)


Ic - VCE
Ic(A)
D.C
1s
100ms
10ms
1.0ms
VCE(V)


PC - Ta
PC (W)
Ta(℃)

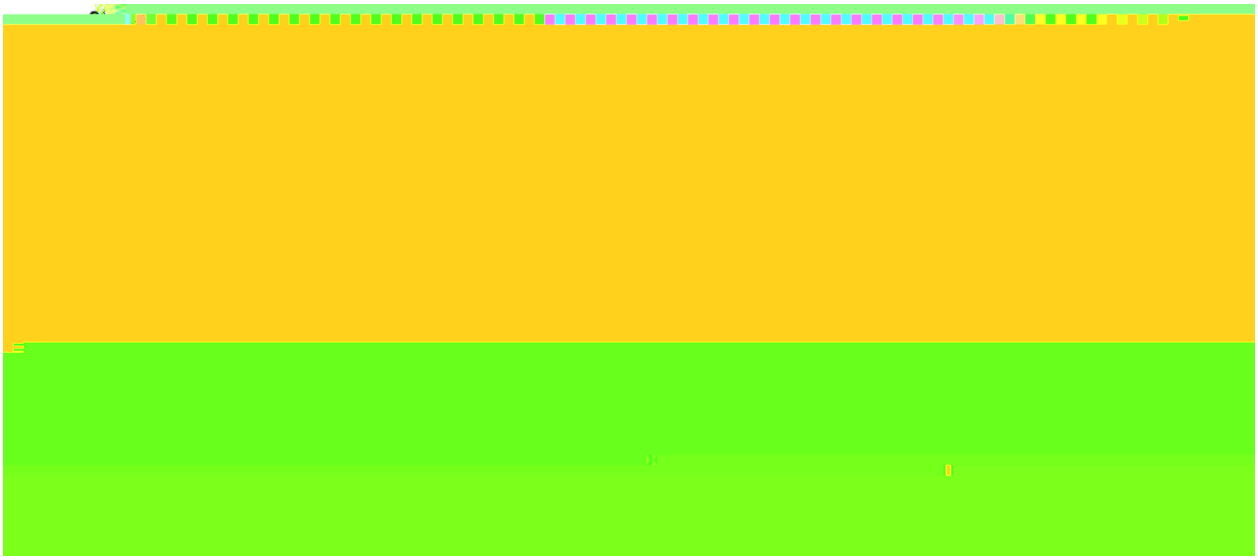
TO-92 Unit: mm





Note:

BR:	Company Code.
X750:	Product Type.
****:	Lot No. Code,code change with Lot No.



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)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type 封装形式	Units 包装数量			Dimension 包装尺寸 (unit: mm3)
	Units/tape 只/纸带	Tape/Inner Box 纸带/盒	Rows/Inner Box 纸带	