/ Descriptions

TO-92 PNP Silicon PNP transistor in a TO-92 Plastic Package.

/ Features

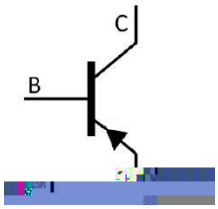
,

High current, Low voltage.

/ Applications

Driver stages of audio or video amplifiers applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

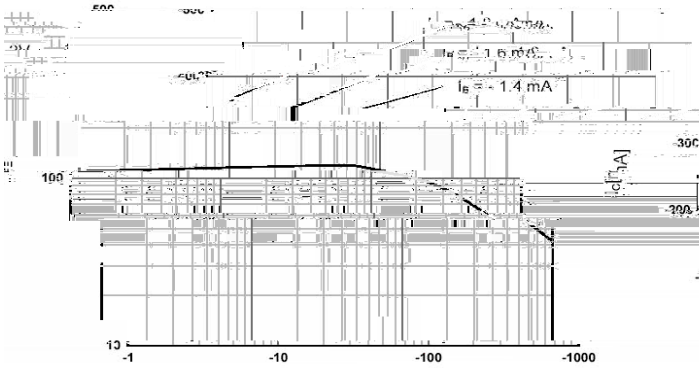
h_{FE} Classifications Symbol	10	16
h_{FE} Range	63~160	100~250

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-45	V
Collector to Emitter Voltage	V_{CEO}	-45	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-1	A
Peak Collector Current	I_{CM}	-1.5	A
Peak Base Current	I_{BM}	-200	mA
Total Power Dissipation	P_{tot}	0.83	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

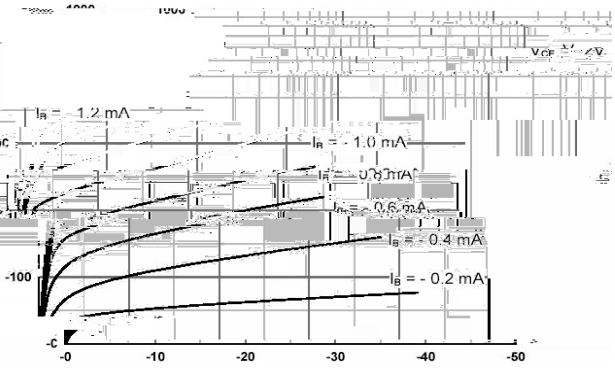
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=-30V I_E=0			-0.1	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-5.0V I_C=0			-0.1	μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-2.0V I_C=-150mA	63		250	
	$h_{FE(2)}$	V_{CE}=-2.0V I_C=-5mA	40			
	$h_{FE(3)}$	V_{CE}=-2.0V I_C=-500mA	25			

/ Electrical Characteristic Curve

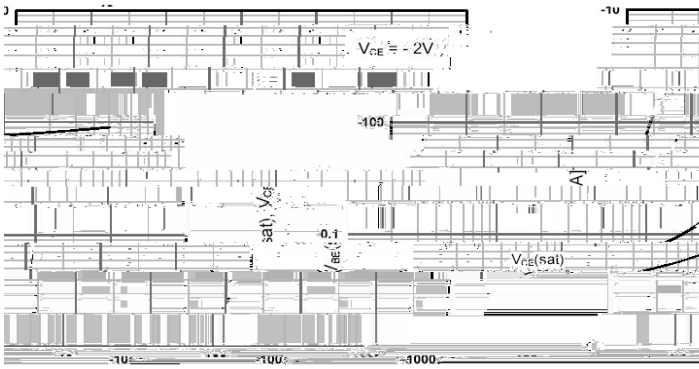
I_C — V_{CE}



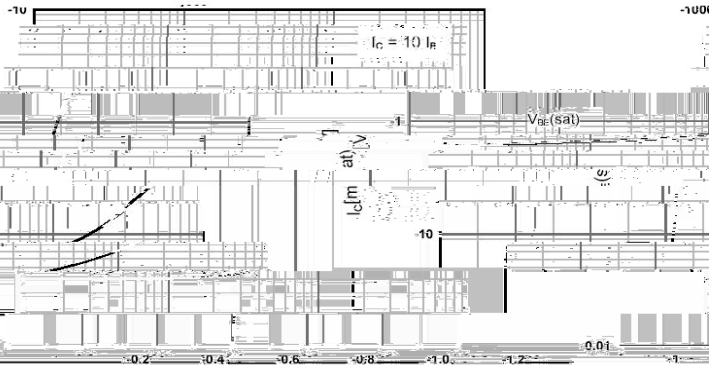
h_{FE} — I_C



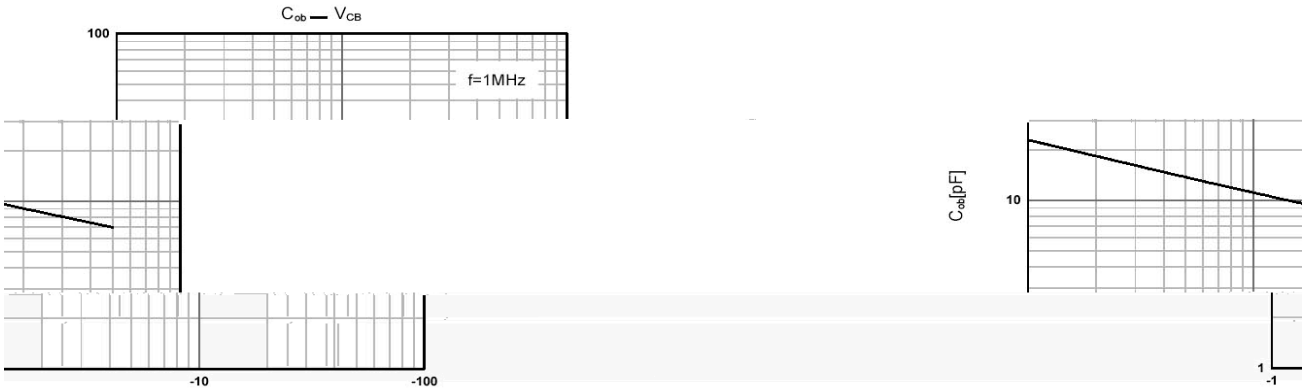
$V_{BE}(sat)$, $V_{CE}(sat)$ — I_C



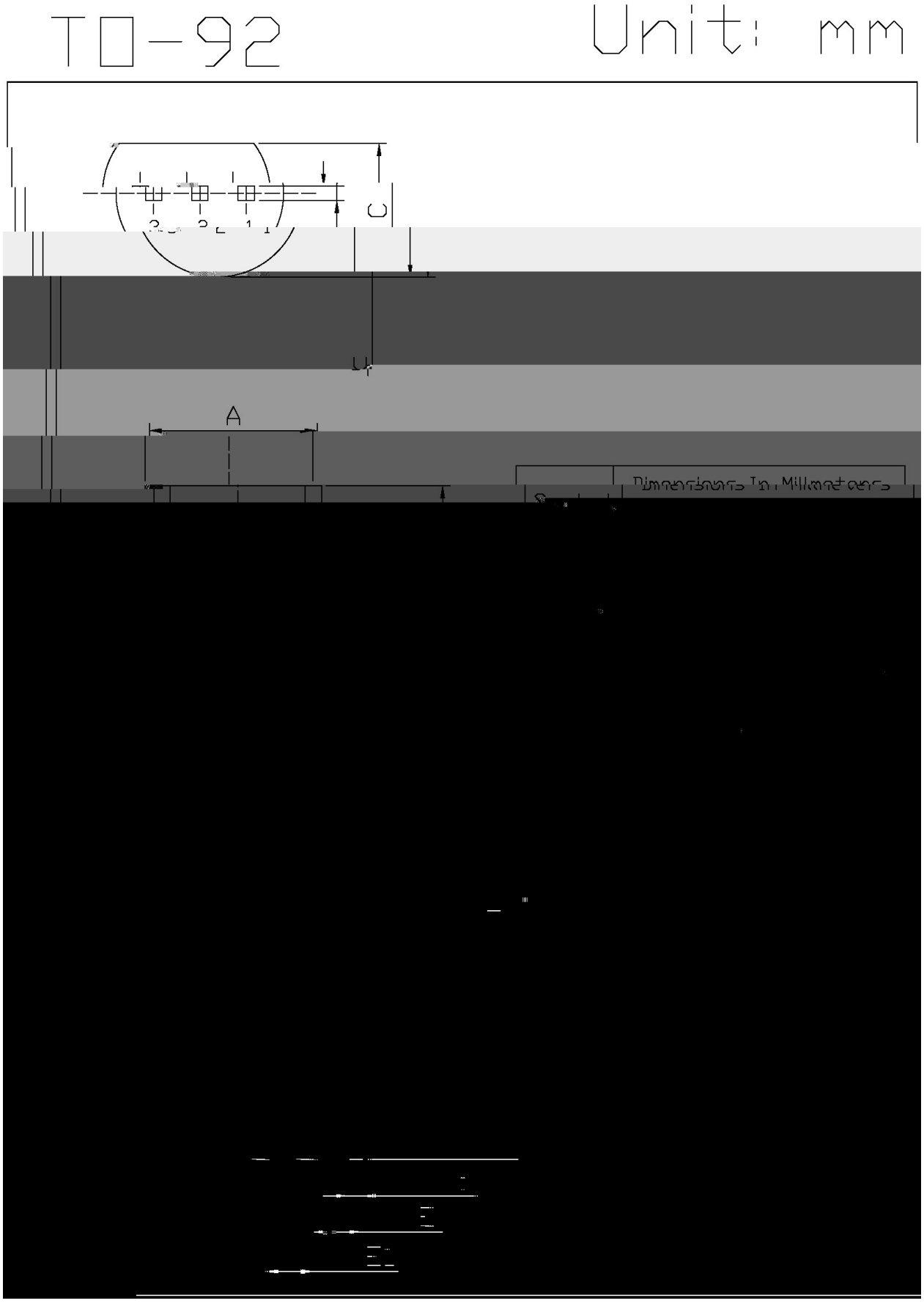
I_C — V_{BE}



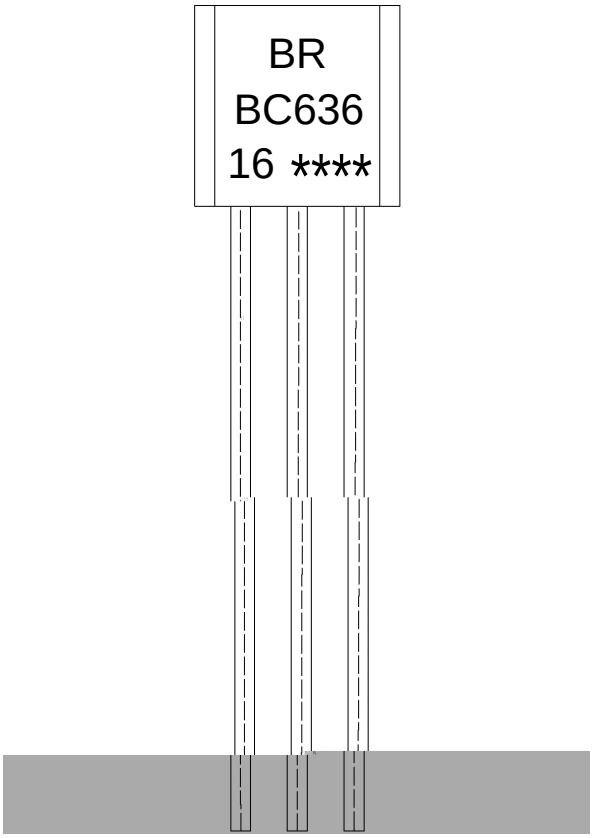
C_{ob} — V_{CB}



/ Package Dimensions



/ Marking Instructions



BR:

BC636

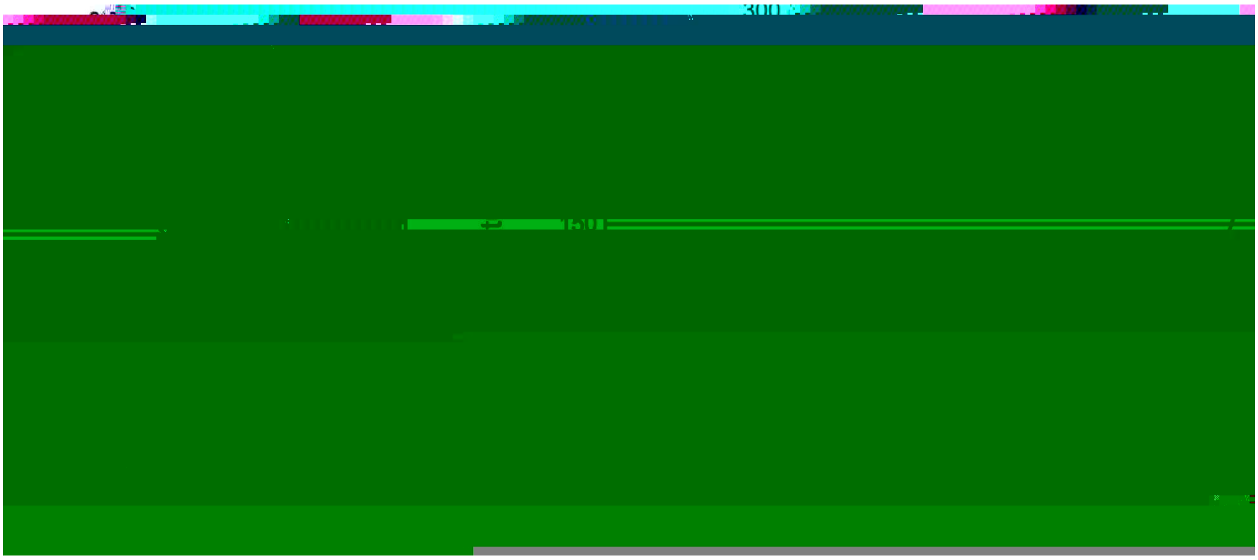
16: h_{FE}

****

Note:

BR:	Company Code.
BC636:	Product Type.
16:	h_{FE} Classifications Symbol
****:	Lot No. Code,code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



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.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ BULK

Package Type	Units			Dimension (unit mm3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	