

/ Absolute Maximum Ratings(Ta=25)

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
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	

/ Electrical Characteristics(Ta=25)

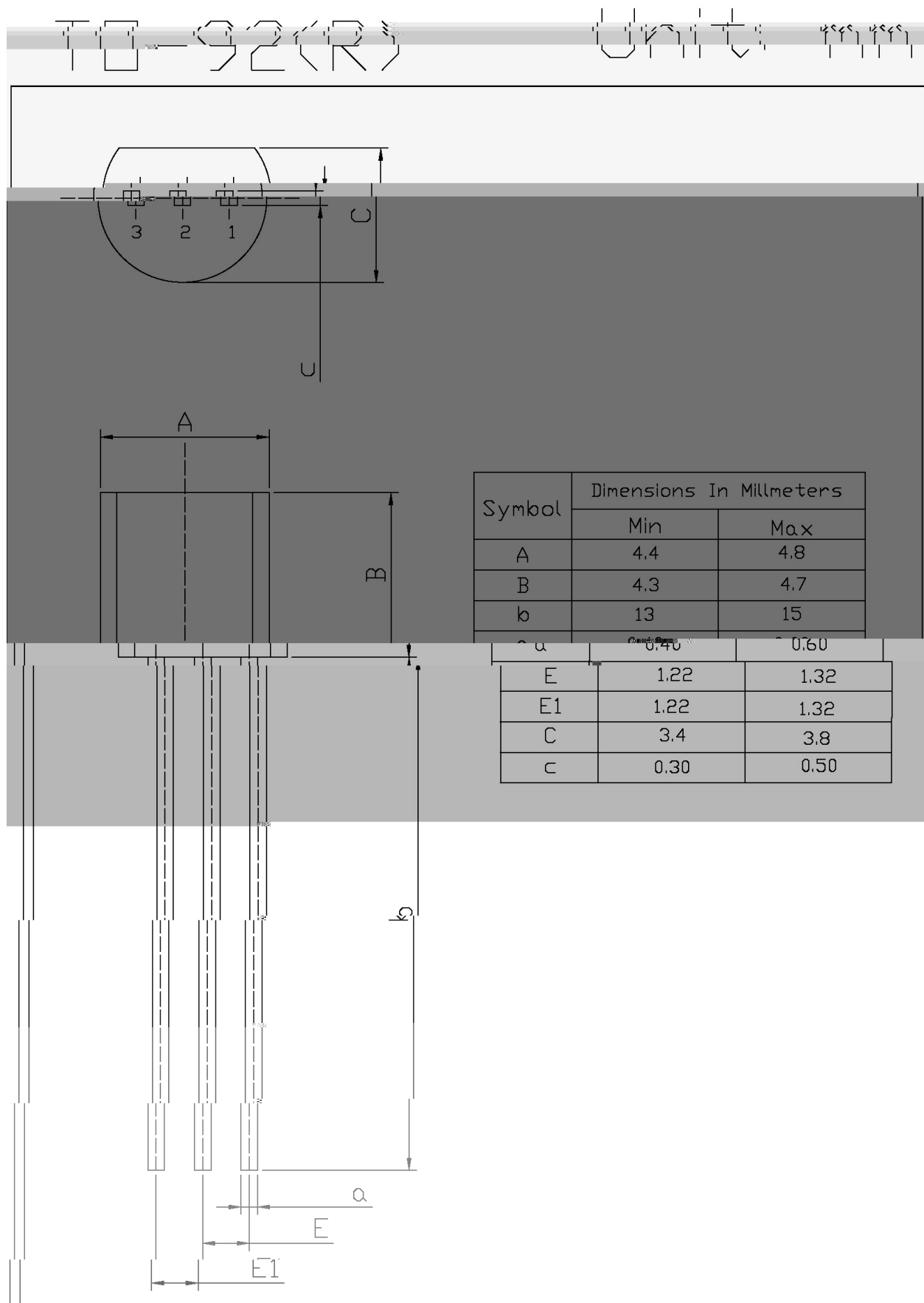
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30V$ $I_E=0$			-0.015	μA
DC Current Gain	h_{FE}	$V_{CE}=-5.0V$ $I_C=-2.0mA$	125		800	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA$ $I_B=-5.0mA$			-0.65	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100mA$ $I_B=-5.0mA$		-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	$V_{CE}=-6.0V$ $I_C=-0.1mA$ $R_g=10K\Omega$ $f=1.0KHz$		1.0	10	dB

BC557

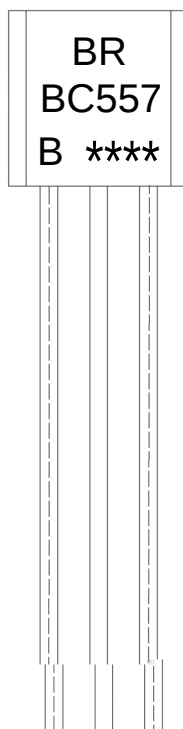
Rev.E Mar.-2016

/ Electrical Characteristic Curve

/ Package Dimensions



/ Marking Instructions



Note:

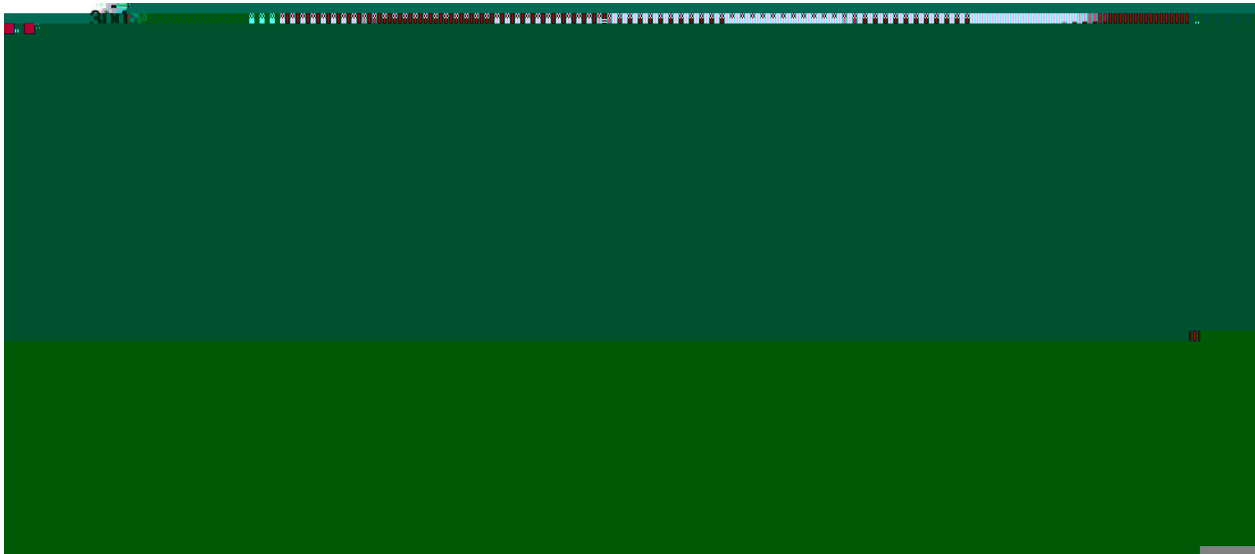
BR: Company Code.

BC557: Product Type.

B h_{FE} Classifications Symbol

****: Lot No. Code, code change with Lot No.

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



- 1

25 150

60 90sec;

2

255 5

5 0.5sec;
- 3
- 2 10 /sec.

Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:255 5 , Duration:5 0.5sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

270 5 2