

BF370

Rev.E Mar.-2016

/ Descriptions

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

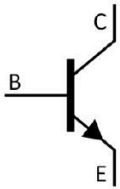
/ Features

Low current, low voltage.

/ Applications

IF pre-amplifiers of television receivers.

/ Equivalent Circuit



/ Pinning



1 2 3
PIN1 Emitter PIN 2 Base PIN 3 Collector

/ h_{FE} Classifications & Marking

See Marking Instructions.

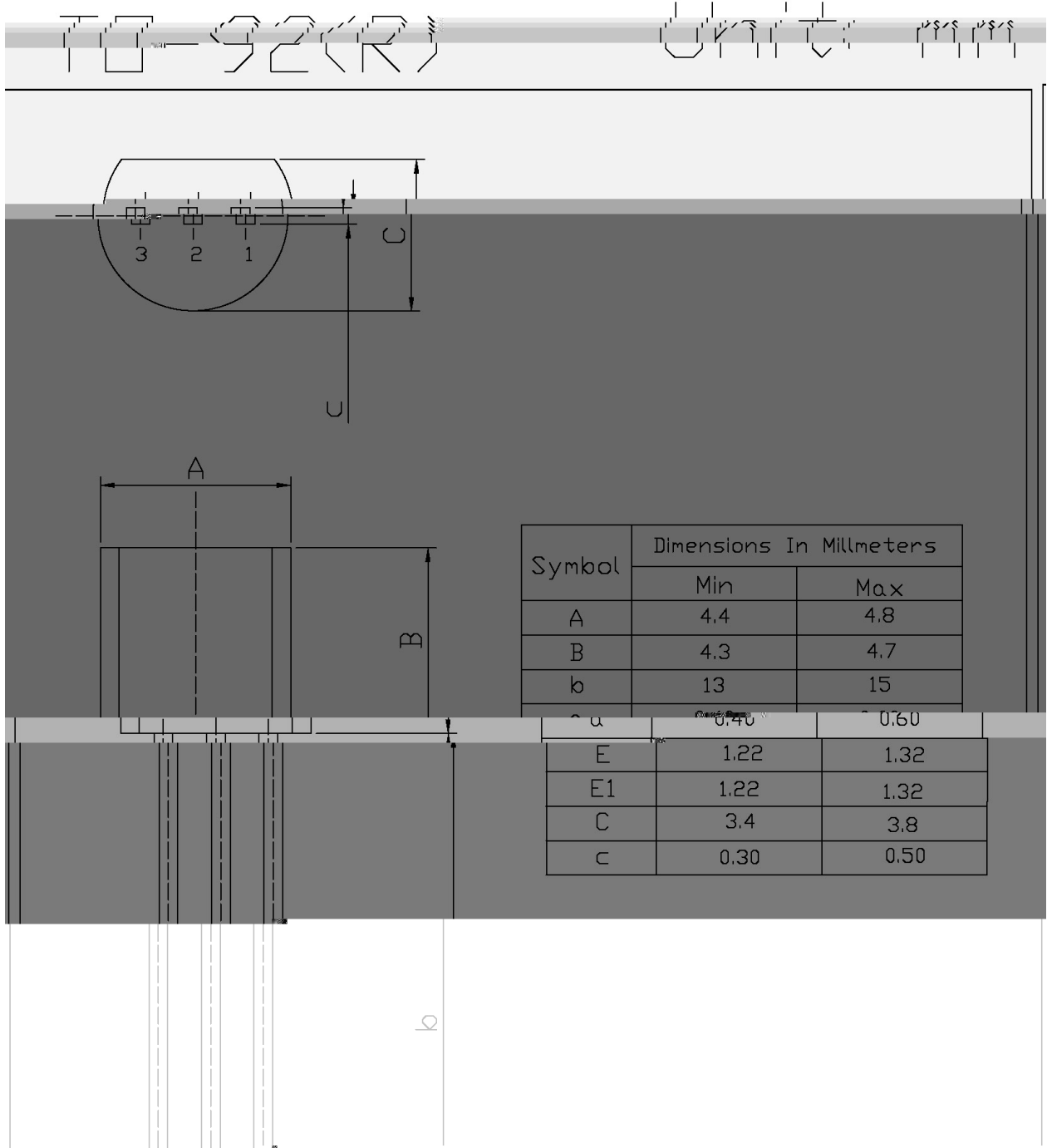
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	15	V
Emitter to Base Voltage	V_{EBO}	4.5	V
Collector Current - Continuous	I_C	100	mA
Peak Collector Current	I_{CM}	200	mA
Collector Power Dissipation	P_C	500	mW
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55~150	

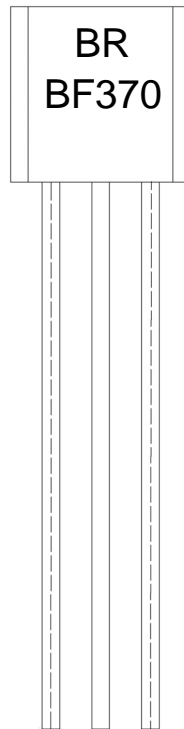
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=20V$ $I_E=0$			30	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=2.0V$ $I_C=0$			0.1	μA
DC Current Gain	h_{FE}	$V_{CE}=1.0V$ $I_C=10mA$	40			
Collector Capacitance	C_c	$I_E=i_e=0$ $V_{CB}=10V$ $f=1.0MHz$		2.2		pF
Emitter Capacitance	C_e	$I_C=i_c=0$ $V_{EB}=1.0V$ $f=1.0MHz$			4.5	pF
Feedback Capacitance	C_{re}	$V_{CB}=10V$ $I_C=0$ $f=1.0MHz$		1.6		pF
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=10mA$ $f=100MHz$	500			MHz
		$V_{CE}=10V$ $I_C=40mA$ $f=100MHz$	490			MHz

/ Package Dimensions



/ Marking Instructions



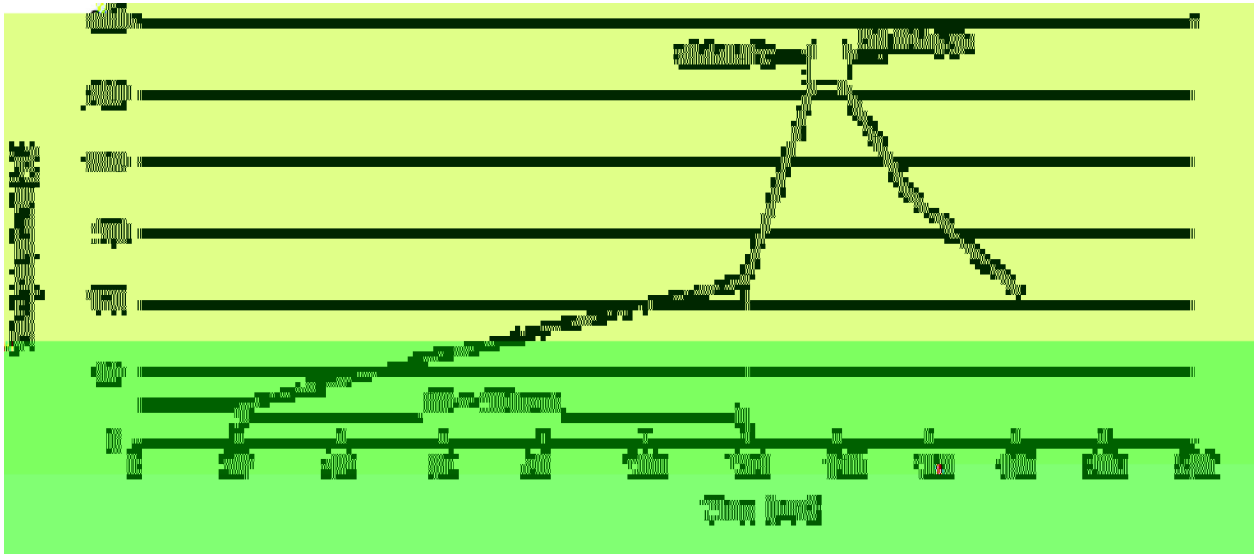
Note:

BR: Company Code.

BF370: Product Type.

****: 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 mm ³)

/ AMMO

Package Type	Units				Dimension		(unit mm ³)

/ Notices