

BC556

Rev.F Mar.-2016

/ Descriptions

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

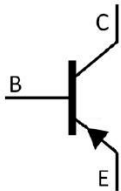
/ Features

, BC546
High voltage, complementary to BC546.

/ Applications

General purpose and switching application.

/ Equivalent Circuit



/ Pinning



PIN1 Emitter PIN 2 Base PIN 3 Collector

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	B
h_{FE} Range	200 450

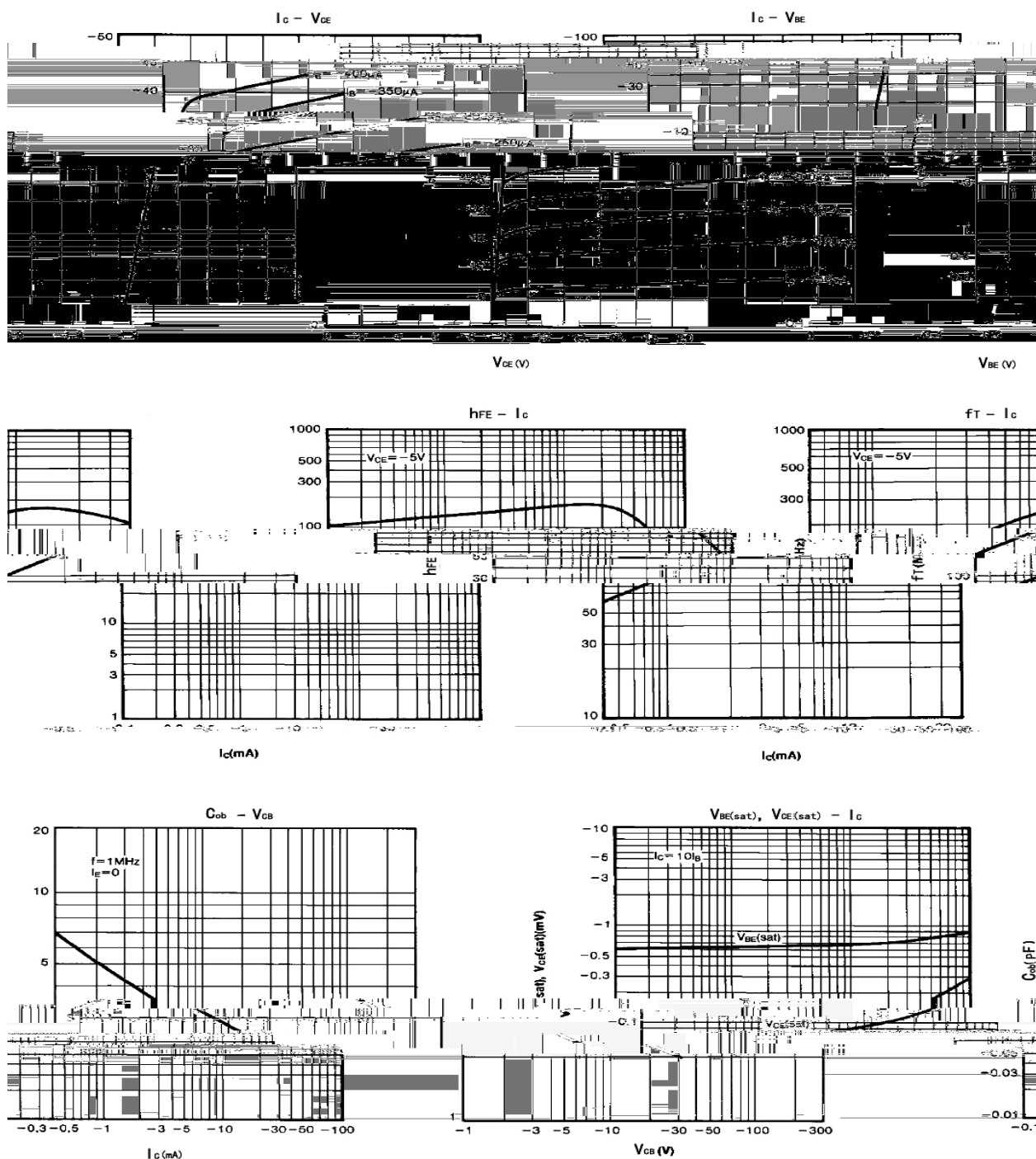
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-80	V
Collector to Emitter Voltage	V_{CEO}	-65	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	°C
Storage Temperature Range	T_{stg}	-55 150	°C

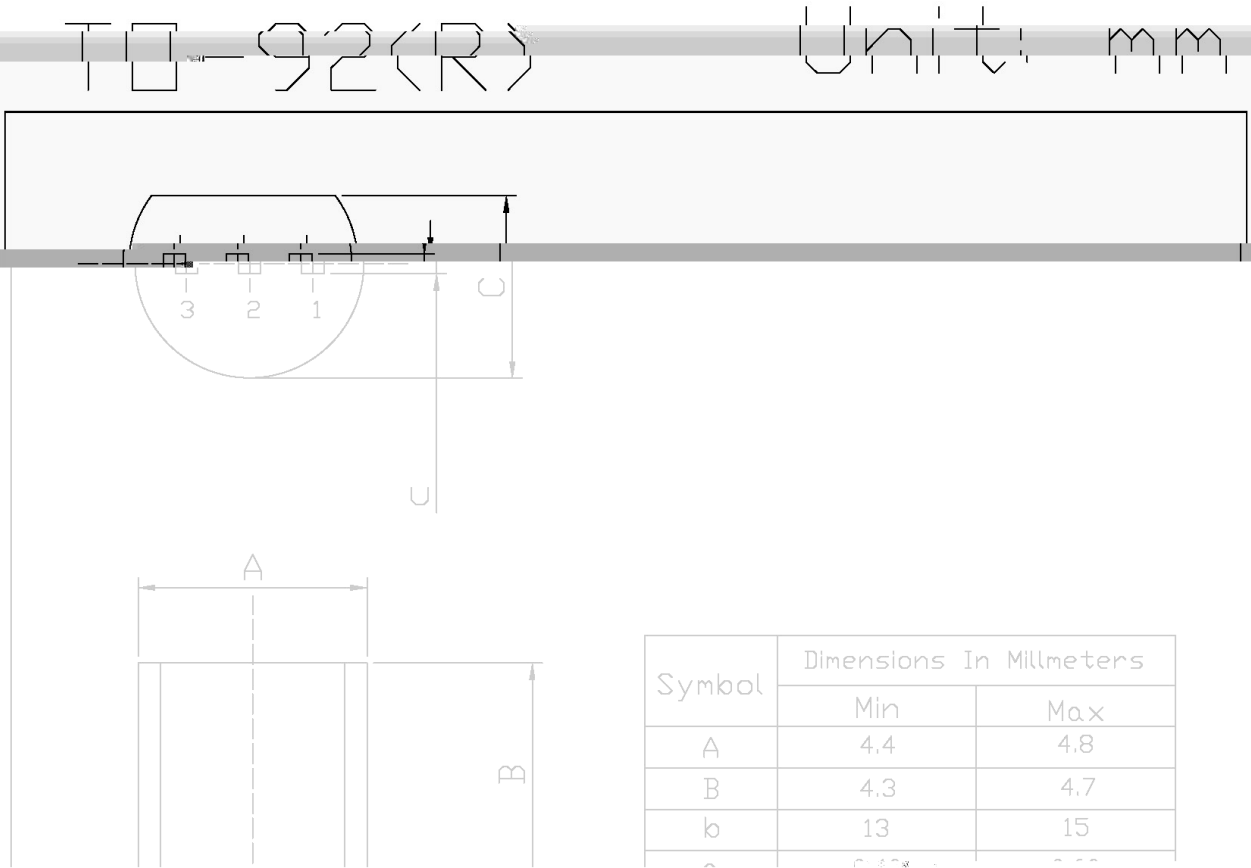
/ Electrical Characteristics(Ta=25)

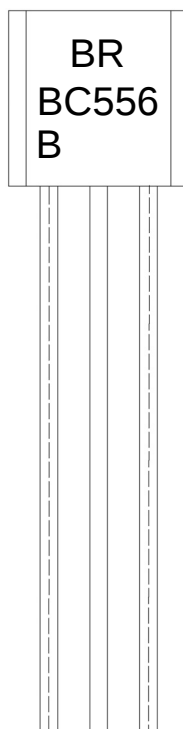
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-30V$ $I_E=0$			-0.015	A
DC Current Gain	h_{FE}	$V_{CE}=-5.0V$ $I_C=-2.0mA$	200		450	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA$ $I_B=-5.0mA$			-0.65	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=-100mA$ $I_B=-5.0mA$		-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	$V_{CE}=-6.0V$ $I_C=-0.1mA$ $R_g=10K$ $f=1.0KHz$		1.0	10	dB

/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

BR

BC556

B h_{FE}

Note:

BR: Company Code.

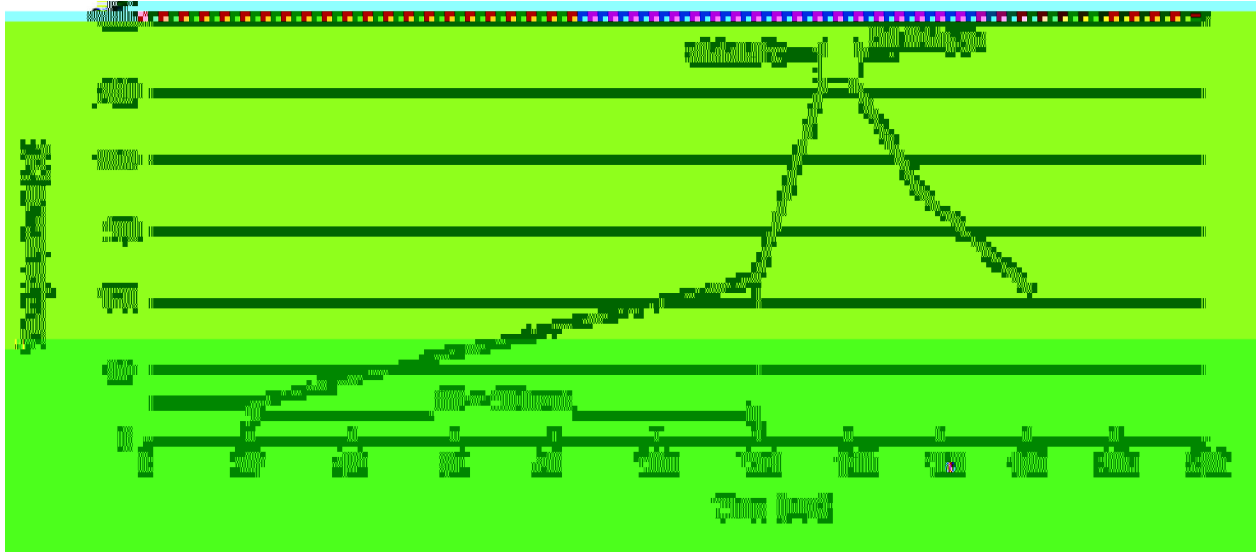
BC556: Product Type.

B 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;
- 2 255±5 5±0.5sec;
- 3 2 10 /sec.

- 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

10±1 sec.

Temp.:270±5℃

Time:10±1 sec

/ Packaging SPEC.

/ 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

/ Notices