

BF421

Rev.E Mar.-2016



DATA SHEET

TO-92

PNP

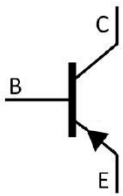
Silicon PNP transistor in a TO-92 Plastic Package.

, BF420

High voltage, complementary pair with BF420.

,

High voltage switching and amplifier ,color TV chrome output.



PIN1 Base

PIN 2 1

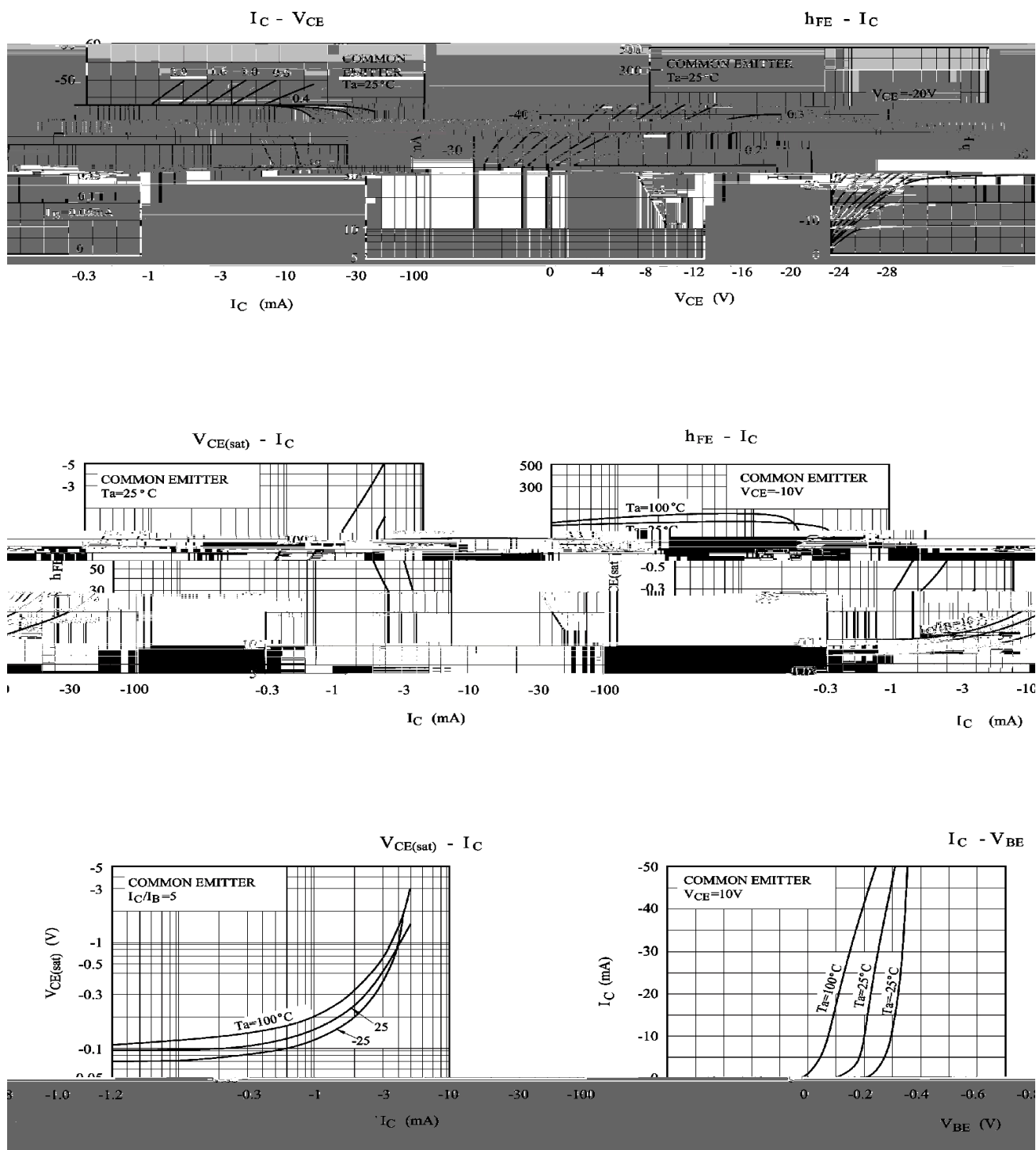
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-300	V
Collector to Emitter Voltage	V_{CEO}	-300	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-50	mA
Peak Collector Current	I_{CM}	-100	mA
Collector Power Dissipation	P_C	830	mW
Peak Base Current	I_{BM}	-50	mA
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}	$V_{CB}=-200V$ $I_E=0$			-0.01	A
C Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.05	A
DC Current Gain	h_{FE}	$V_{CE}=-20V$ $I_C=-25mA$	50			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-30mA$ $I_B=-5.0mA$			-0.6	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=-20V$ $I_C=-25mA$		-0.75		V
Transition Frequency	f_T	$V_{CE}=-10V$ $I_C=-10mA$	60			MHz
Reverse Transfer Capacitance	C_{re}	$V_{CB}=-30V$ $I_E=0$ $f=1.0MHz$			1.6	pF

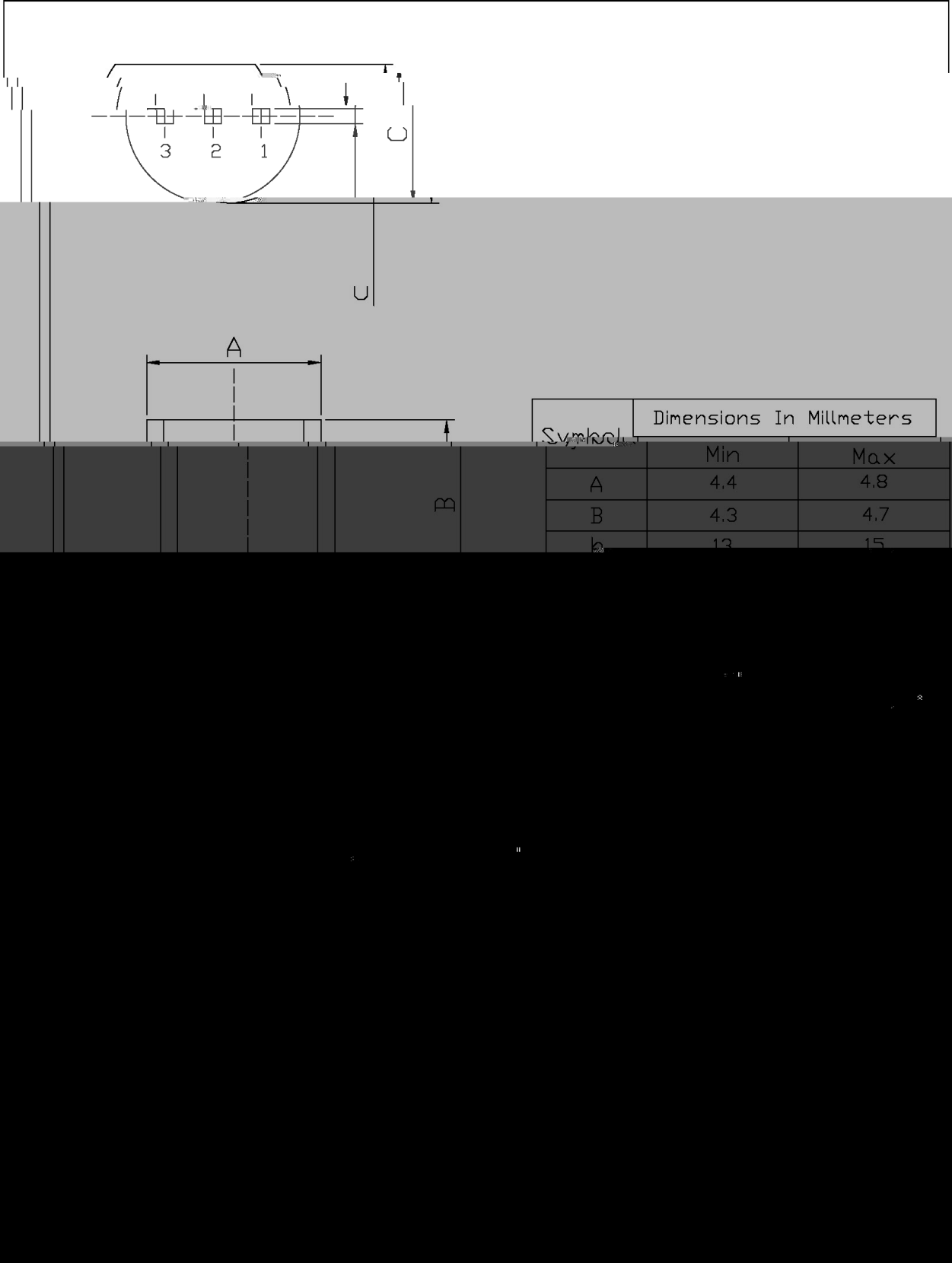
/ Electrical Characteristic Curve



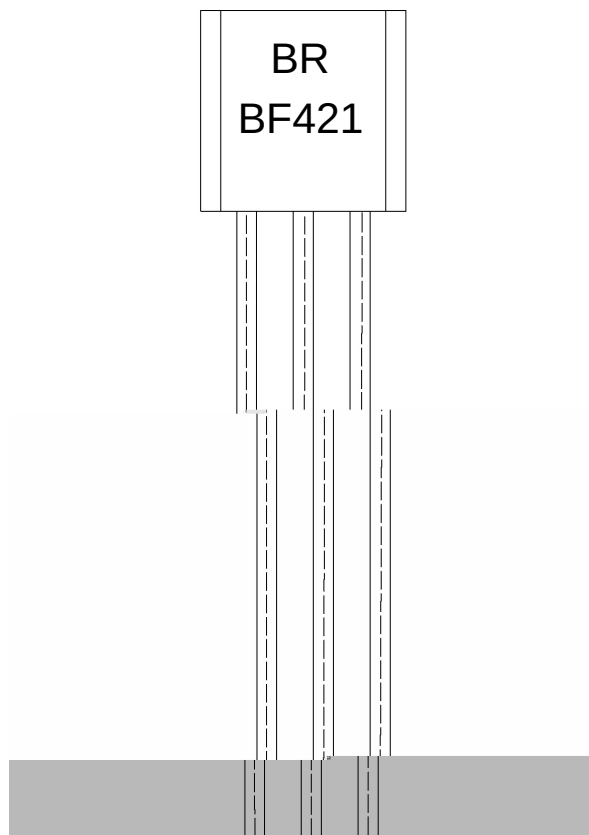
/ Package Dimensions

TO-92

Unit: mm



/ Marking Instructions



BR:

BF421

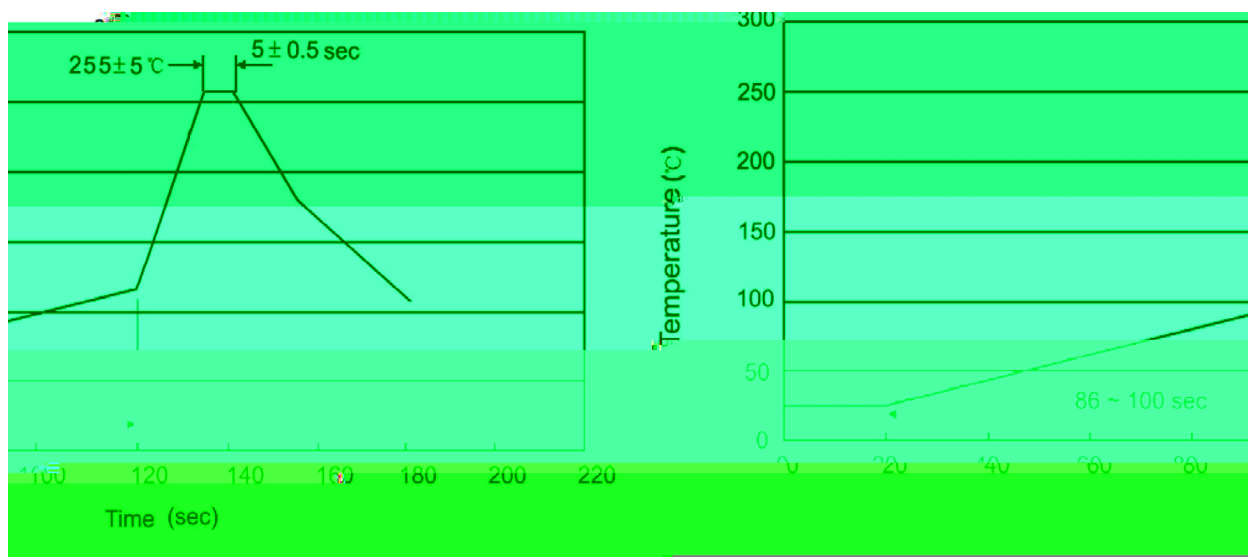
Note:

BR: Company Code.

BF421: Product Type.

****: 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	