

BF423

Rev.E Mar.-2016

/ Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

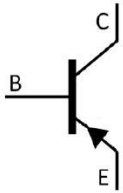
/ Features

High breakdown voltage, complementary pair with BF422.

/ Applications

High voltage switching and amplifier ,color TV chrome output.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ hFE Classifications & Marking

See Marking Instructions.

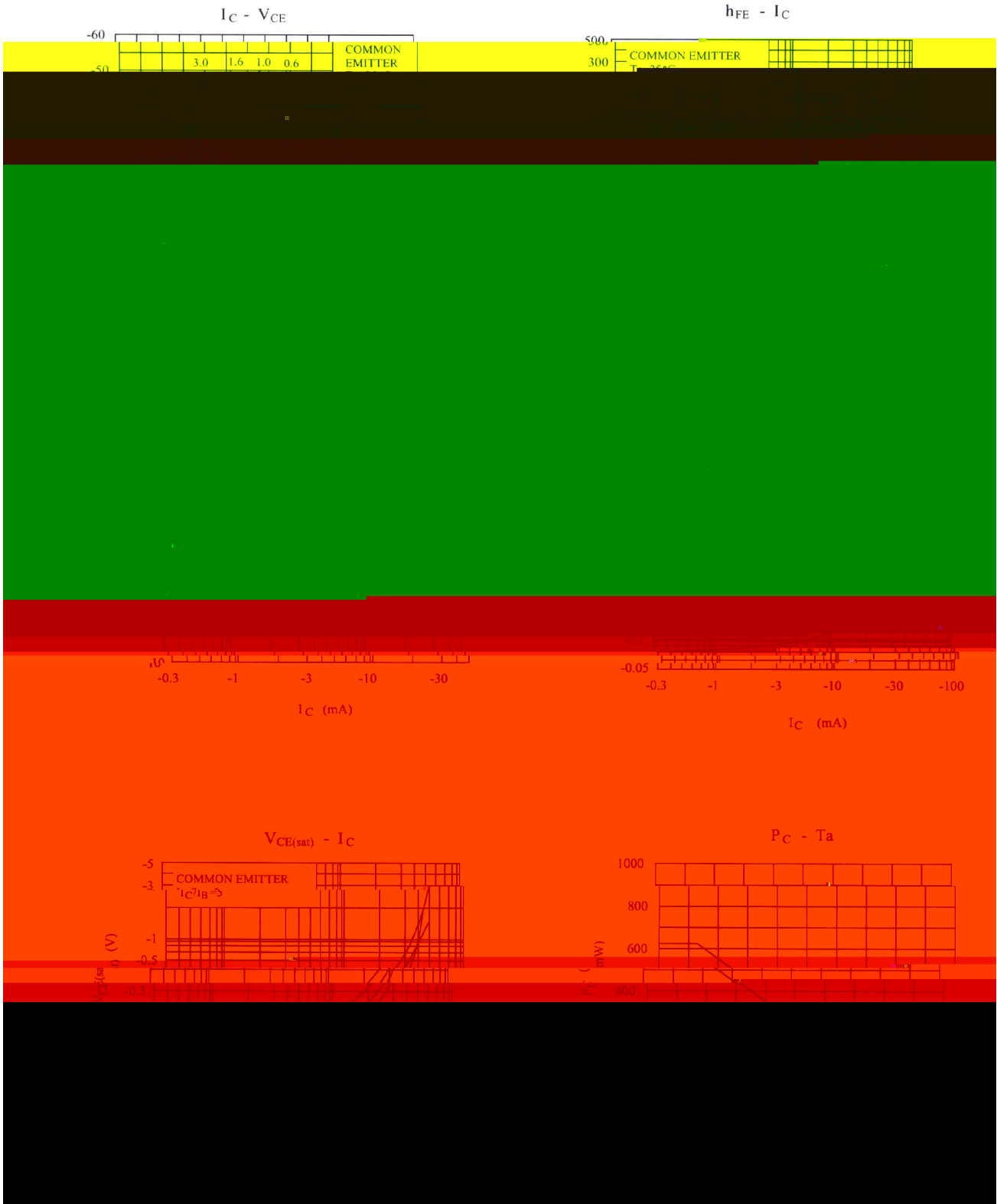
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-250	V
Collector to Emitter Voltage	V_{CEO}	-250	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
Base Current - Continuous	I_B	-50	mA
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

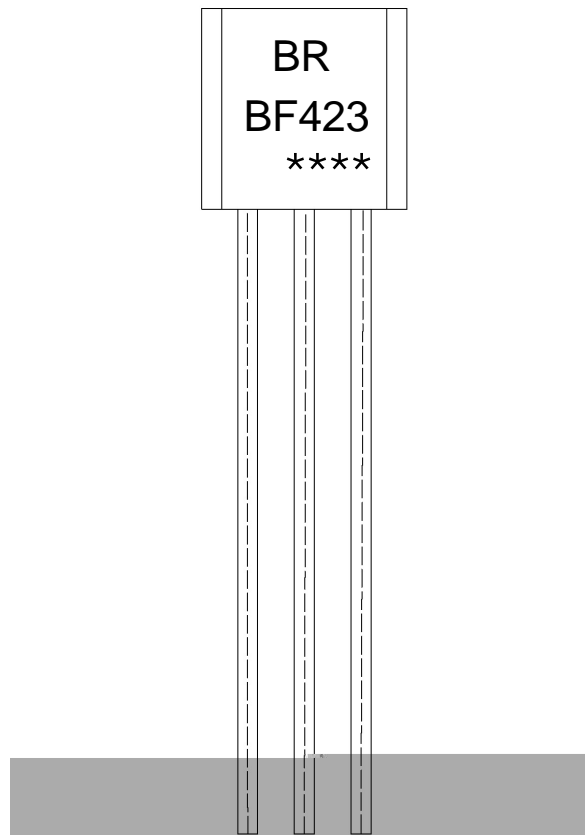
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-200V$ $I_E=0$			-0.01	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-0.05	μA
DC Current Gain	h_{FE}	$V_{CE}=-20V$ $I_C=-25mA$	50			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-30mA$ $I_B=-5.0mA$			-0.6	V
Base -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**



/ **Marking Instructions**



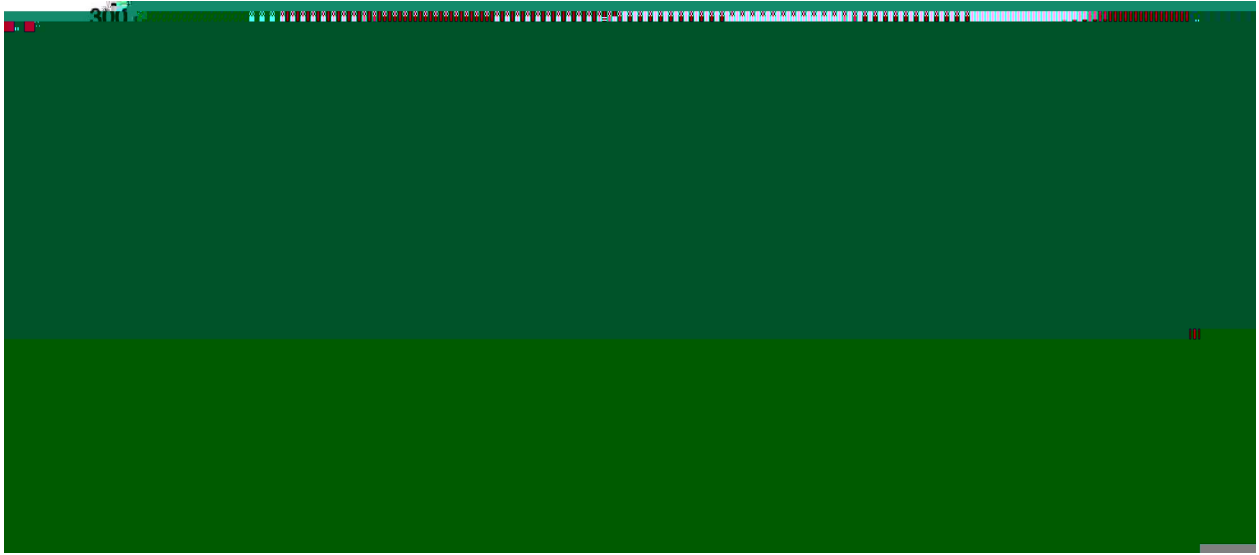
Note:

BR: Company Code.

BF423: 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 mm3)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-92	1,000	10	10,000	5	50,000	135×190	237×172×102	560×245×195
	1,000	10	10,000	10	100,000	135×190	237×172×102	560×245×375

/ AMMO

Package Type	Units			Dimension (unit mm3)	
	Units/tape /	Tape/Inner Box /	Rows/Inner Box	Dimension	(unit mm3)