

### / Descriptions

Silicon PNP transistor in a TO-92 Plastic Package.

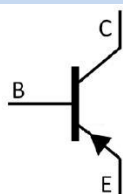
### / Features

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.

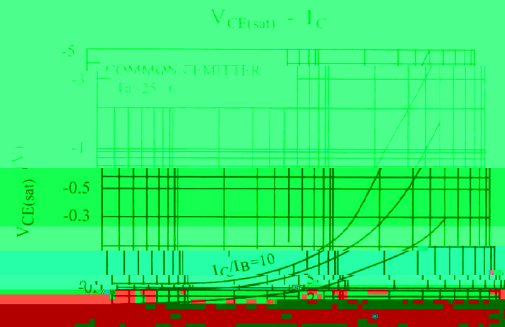
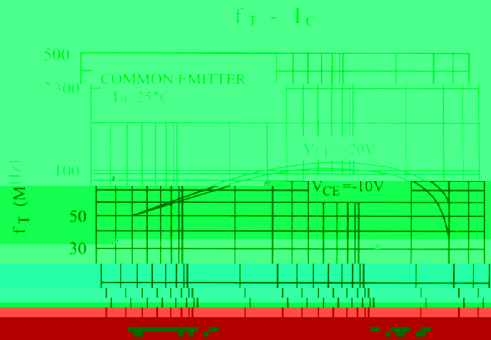
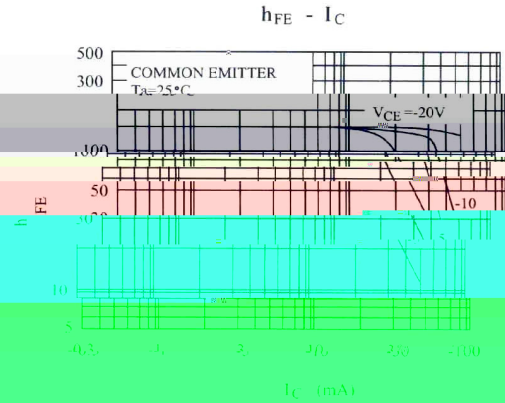
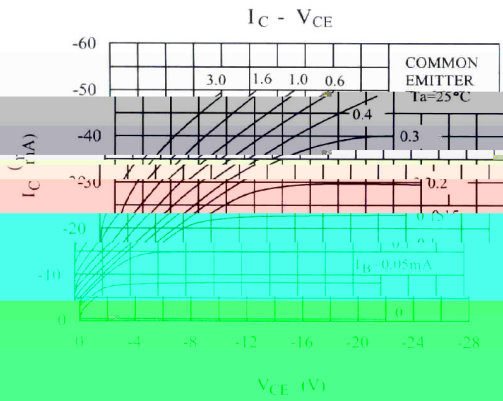
**/ Absolute Maximum Ratings(Ta=25 )**

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	$\mu A$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=-5.0V$ $I_C=0$			-0.05	$\mu A$
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

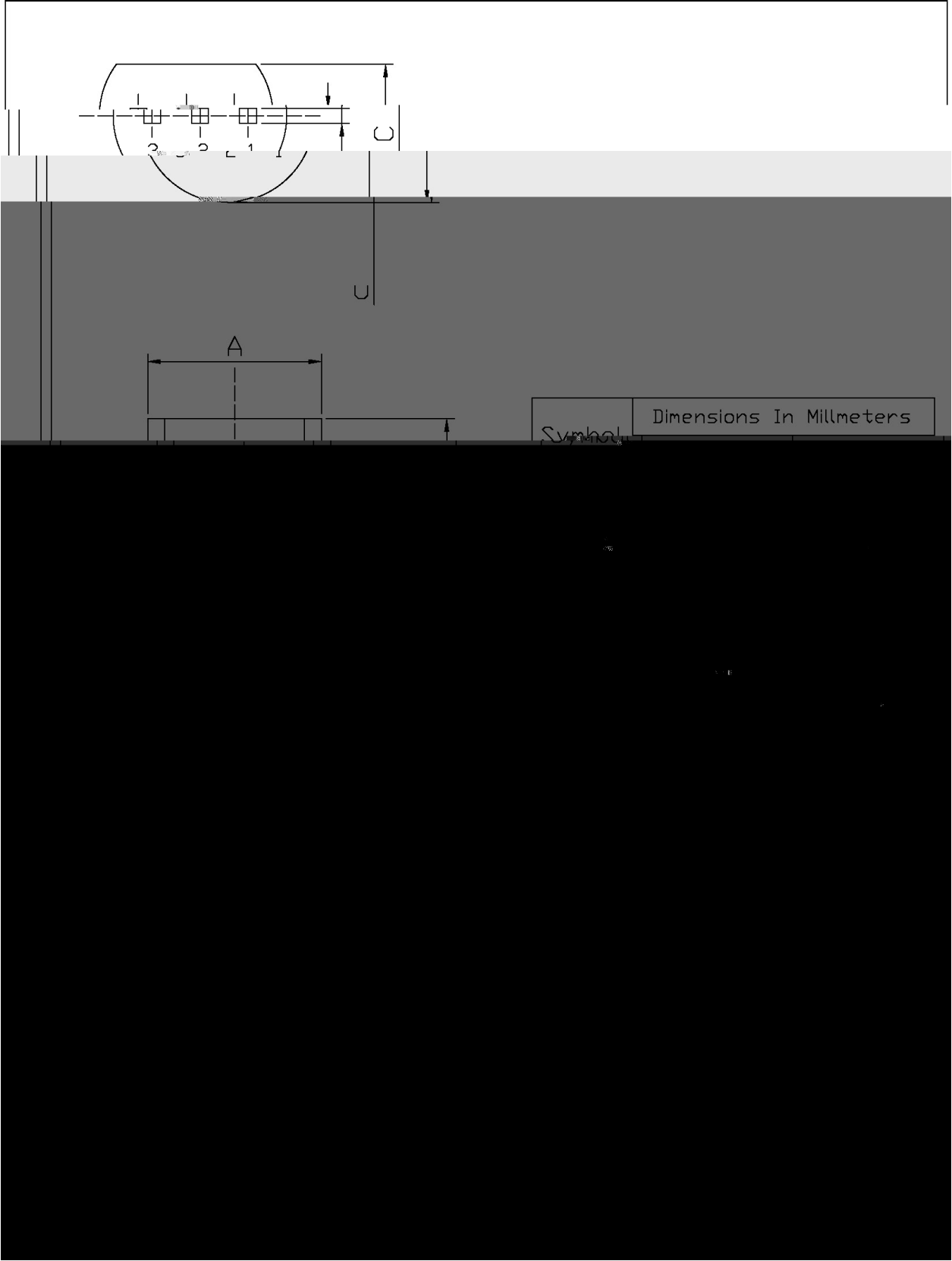
**/ Electrical Characteristic Curve**



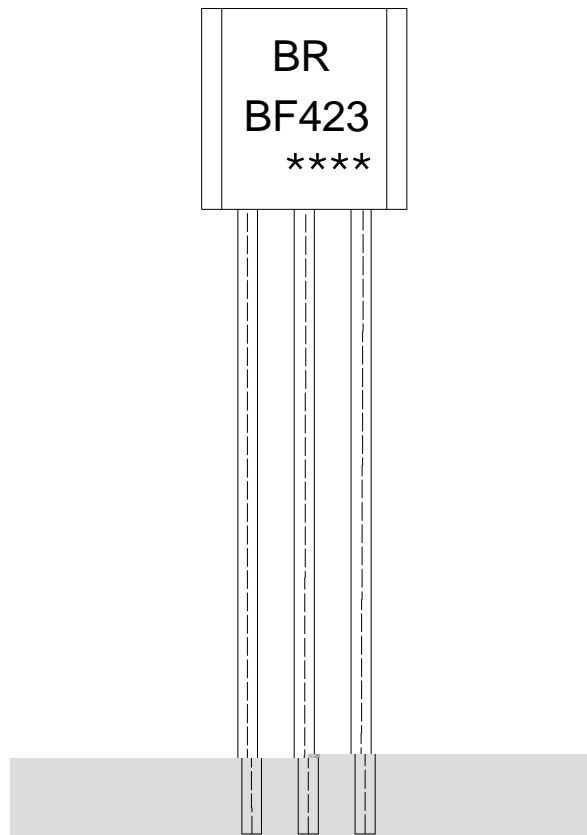
/ Package Dimensions

TO-92

Unit: mm



/ **Marking Instructions**



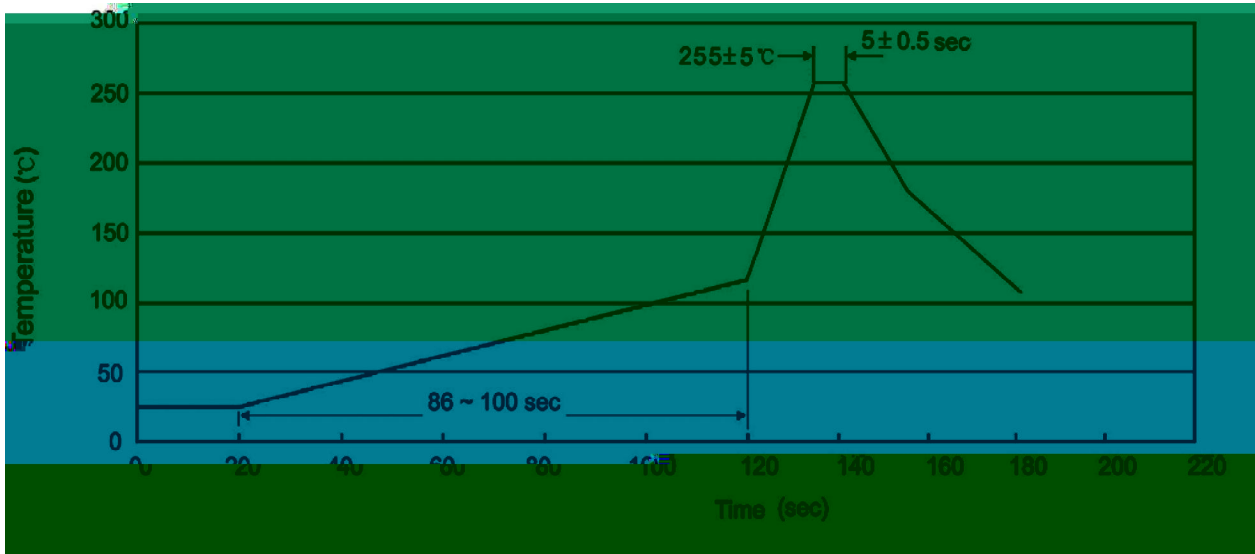
Note:

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 /	
			<del>10</del>	