

# BF822

Rev.F Apr.-2017

## / Descriptions

SOT-23

NPN

Silicon NPN transistor in a SOT-23 Plastic Package.

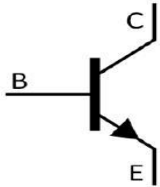
## / Features

Low current, high voltage.

## / Applications

Telephony and professional communication equipment.

## / Equivalent Circuit



PIN1 Base

PIN 2 Emitter

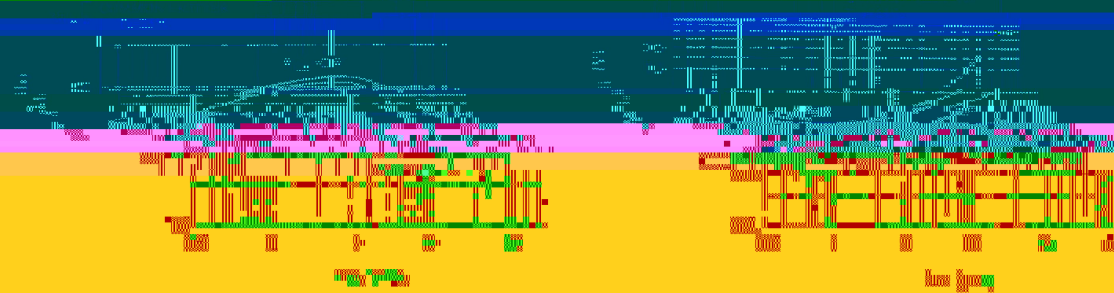
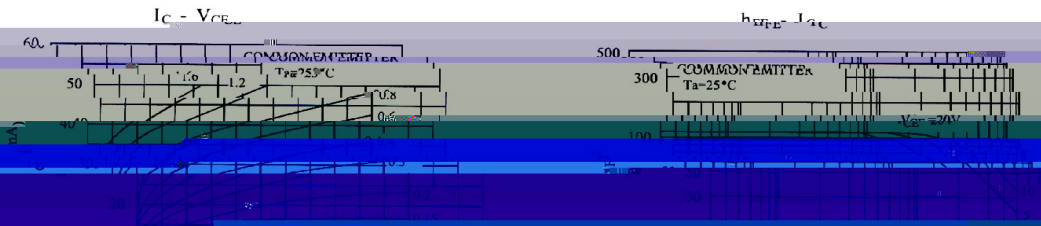
PIN 3 Collector

## / $h_{FE}$ Classifications & Marking

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- Continuous	$I_{CM}$	100	mA
Base Current	$I_B$	50	mA
Collector Power Dissipation	$P_C$	250	mW
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

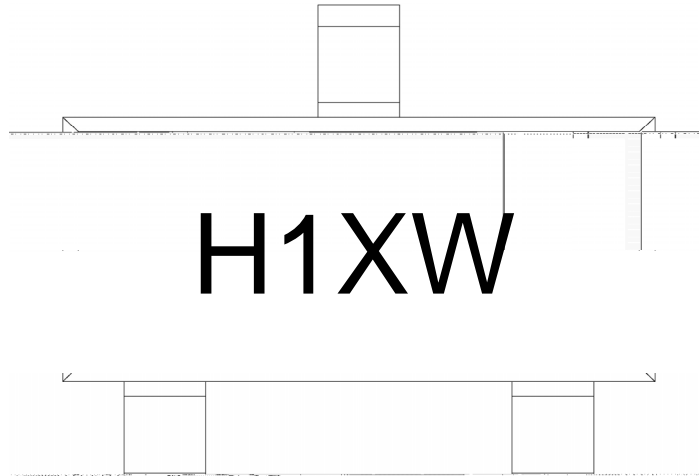
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=200V$ $I_E=0$ $T_j=150$			10	A
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=200V$ $I_E=0$			0.01	A
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=5.0V$ $I_C=7.02$ 324.3 38.4403b1.14(20.5t 362.483833 97220 1 ( V0.22-2.3771.5( )-218(0.0150				

/ Electrical Characteristic Curve





**/ Marking Instructions**



H

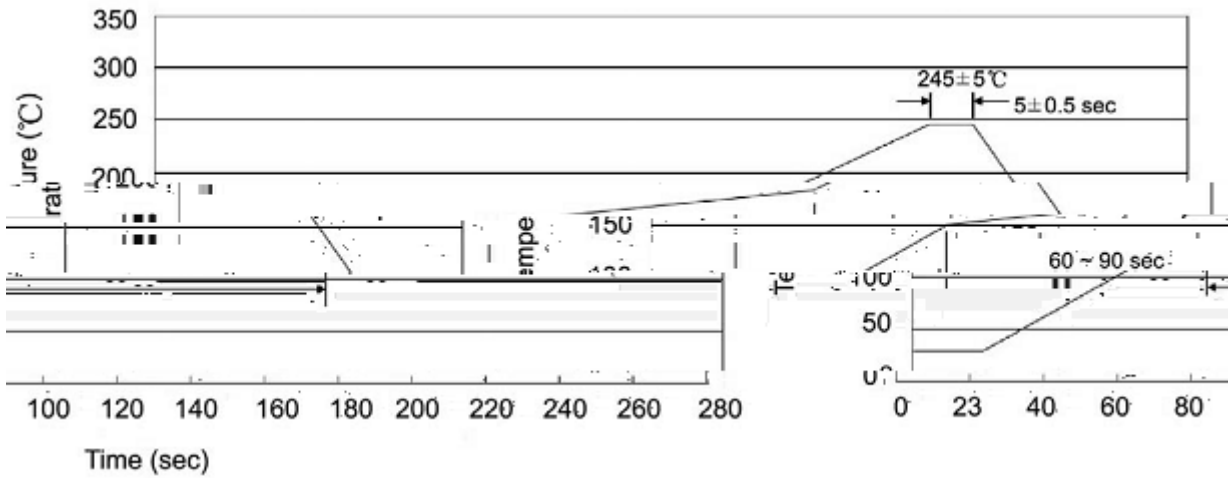
1XW

**Note:**

H: Company Code.

1XW: Product Type Code.

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |           |        |                                         |
|---|-------|-----|-----------|--------|-----------------------------------------|
| 1 | 25    | 150 | 60        | 90sec; | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 245±5 |     | 5±0.5sec; |        | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 |       | 2   | 10        | /sec.  | 3. Cooling Speed: 2~10 /sec.            |

/ Resistance to Soldering Heat Test Conditions

260±5                      10±1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205

/ Notices