

/ Descriptions

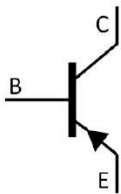
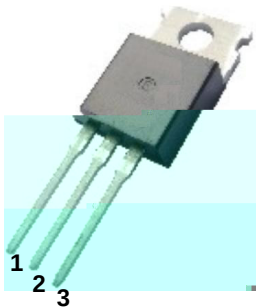
Silicon PNP transistor in a TO-220 Plastic Package.

/ Features

High DC current gain, High V_{CEO} , High f_T , Complementary pair with MJE15034.

/ Applications

Designed for us as high-frequency drivers in audio amplifiers.

/ Equivalent Circuit**/ Pinning**

PIN1 Base PIN 2 Collector PIN 3 Emitter

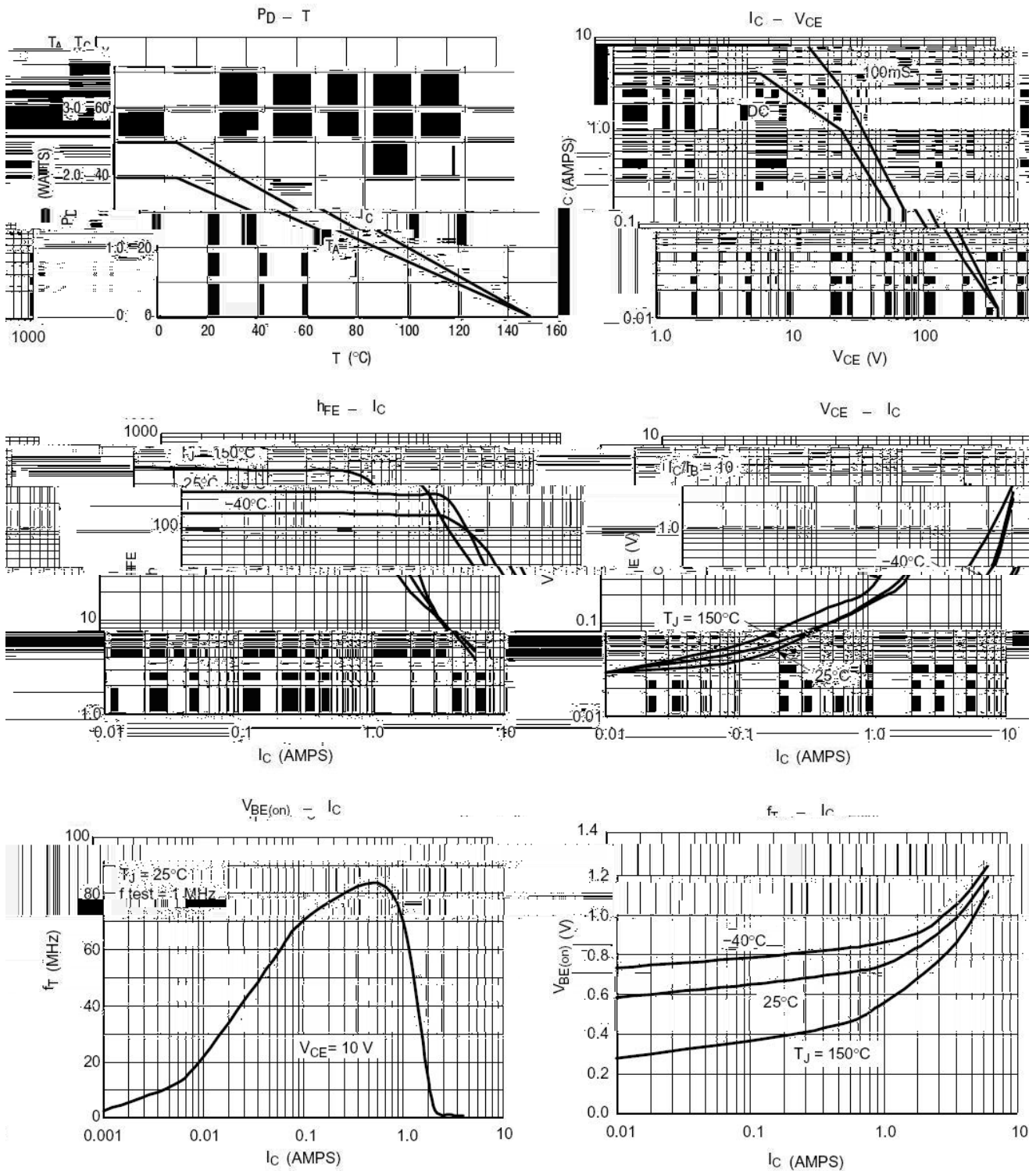
/ h_{FE} Classifications & Marking

See Marking Instructions.

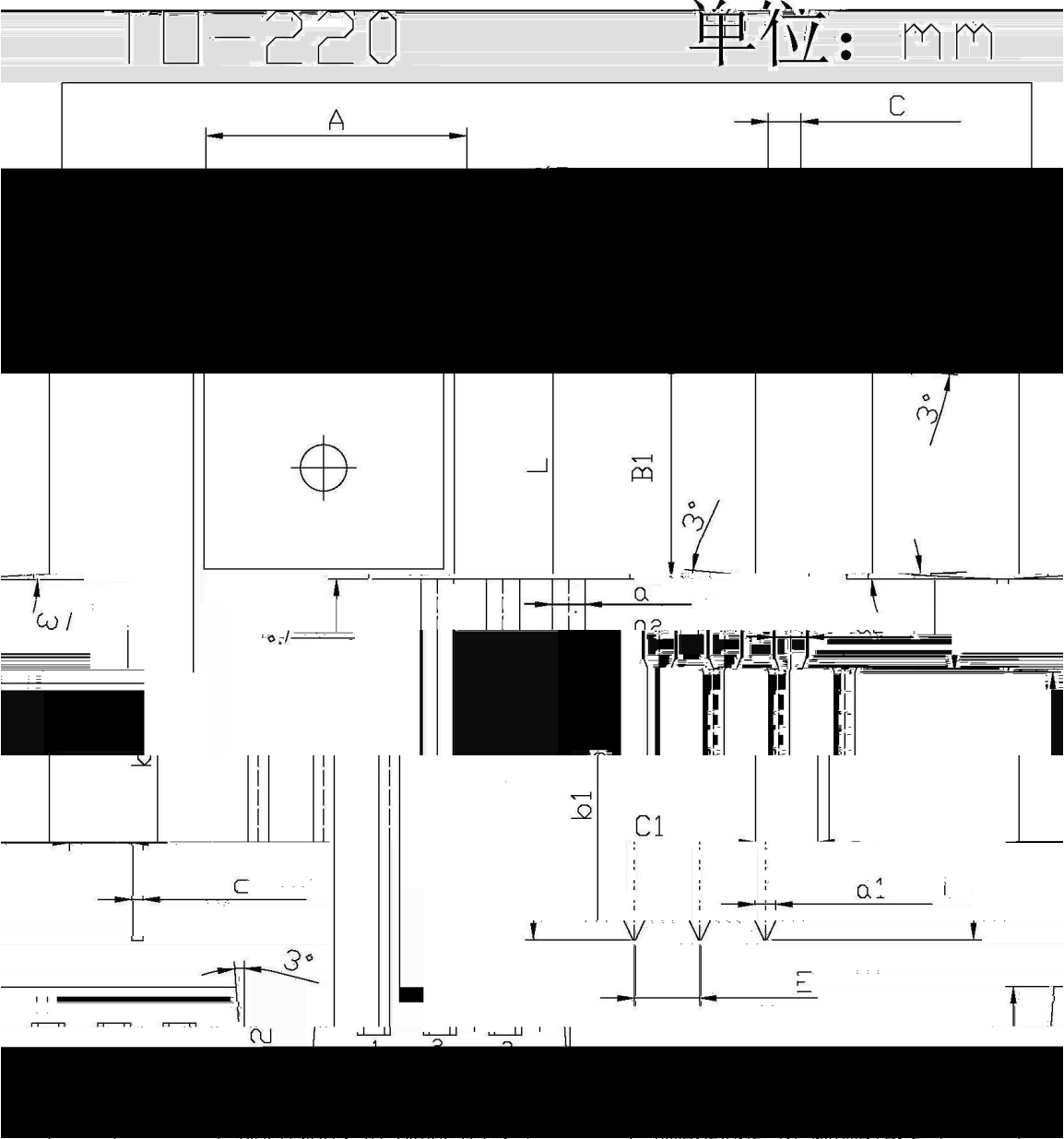
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-350	V
Collector to Emitter Voltage	V_{CEO}	-350	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-4.0	A
Base Current - Continuous	I_B	-1.0	A
Collector Power Dissipation	P_D	2.0	W
	$P_D(T_C=25^\circ\text{C})$	50	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	
Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.5	/W
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	62.5	/W

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage*	$*V_{CEO}$	$I_C=-10\text{mA}$ $I_B=0$	-350			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-350\text{V}$ $I_E=0$			-10	μA
Emitter Cut-Off Current	I_{EBO}	$V_{BE}=-5\text{V}$ $I_C=0$			-10	μA
DC Current Gain	$*h_{FE(1)}$	$V_{CE}=-5\text{V}$ $I_C=-0.5\text{A}$	100		500	
	$*h_{FE(2)}$	$V_{CE}=-5\text{V}$ $I_C=-0.1\text{A}$	100			
	$*h_{FE(3)}$	$V_{CE}=-5\text{V}$ $I_C=-1\text{A}$	5.0			
	$*h_{FE(4)}$	$V_{CE}=-5\text{V}$ $I_C=-2\text{A}$	10			
Collector to Emitter Saturation Voltage*	$*V_{CE(sat)}$	$I_C=-1\text{A}$ $I_B=-0.1\text{A}$			-0.5	V
Base to Emitter On Voltage*	$*V_{BE(on)}$	$V_{CE}=-5\text{V}$ $I_C=-1\text{A}$			-1.0	V
Transition Frequency	f_T	$V_{CE}=-10\text{V}$ $I_C=-500\text{mA}$ $f=1\text{MHz}$	30			MHz

/ Electrical Characteristic Curve

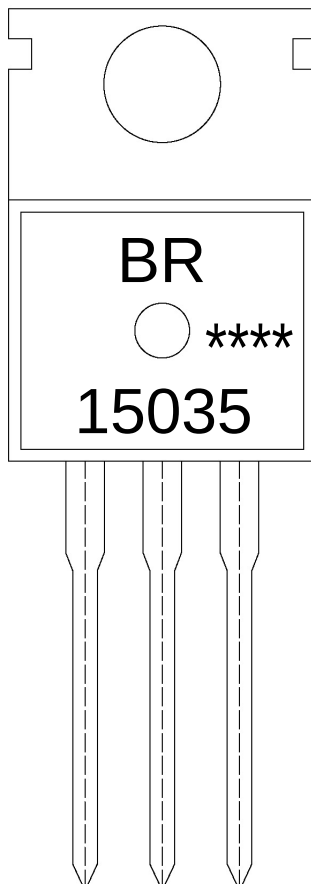


/ Package Dimensions



Symbol	Dimensions in millimeters		Symbol	Dimensions in millimeters		
	Min	Max		Min	Max	
	16.1	17.8		10.2	11.2	14.0
	9.0	9.4		3.64	3.84	6.7
	1.22	1.32		0.4	0.6	15.7
	2.34	2.74		4.3	4.7	h1
	1.25	1.45				a
						a2

/ Marking Instructions



BR

15035

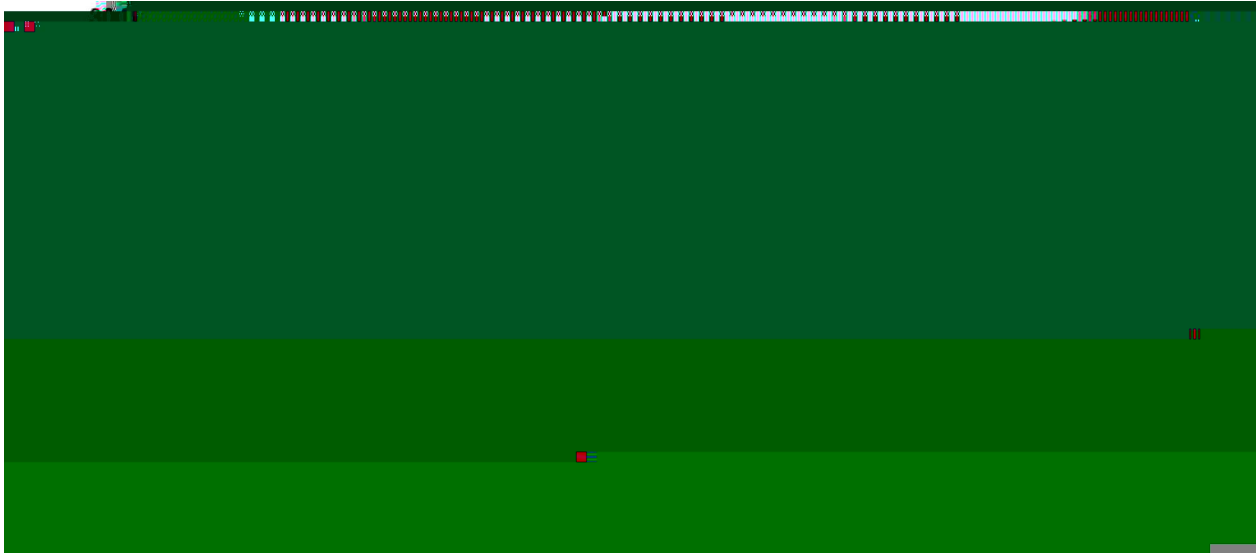
Note:

BR: Company Code

15035: 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 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Bag 只/袋	Bags/Inner Box 袋/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Bag 袋	Inner Box 盒	Outer Box 箱
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices