

/ Descriptions

TO-220 PNP Silicon PNP transistor in a TO-220 Plastic Package.

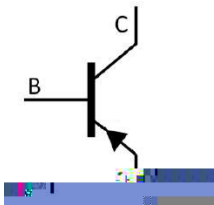
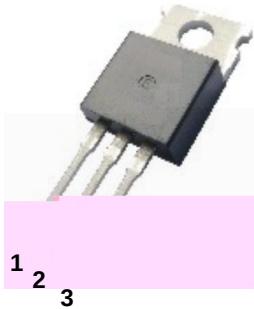
/ Features

- MJE15036

High DC current gain, High V_{CEO} , High f_T , Complementary pair with MJE15036.

/ 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.

/ Absolute Maximum Ratings(Ta=25)

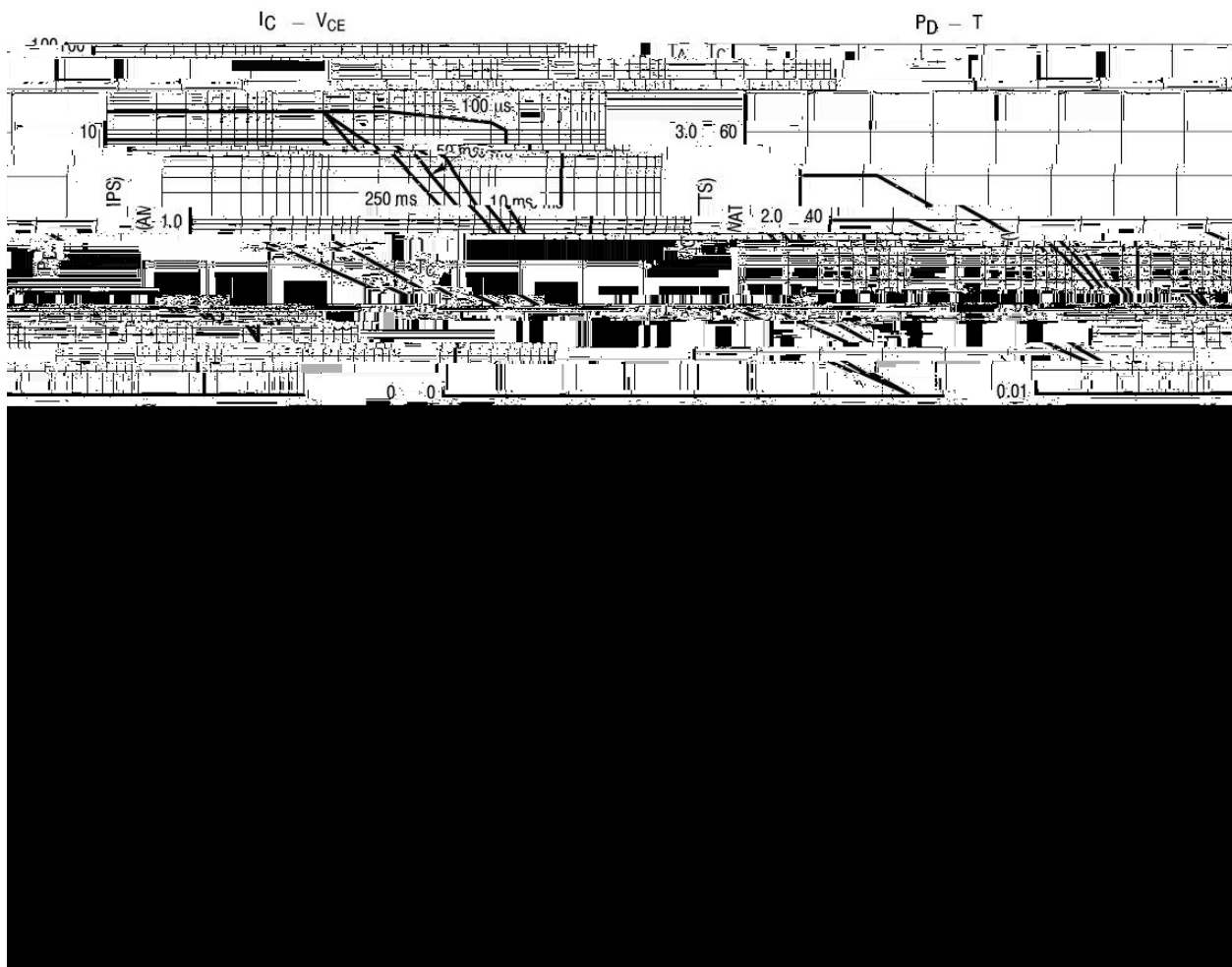
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-250	V
Collector to Emitter Voltage	V_{CEO}	-250	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-8	A
Base Current - Continuous	I_B	-2	A
Collector Power Dissipation	P_D	2	W
	$P_D(T_c=25)$	50	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-65 150	
Thermal Resistance, Junction to Case	R_{JC}	2.5	/W
Thermal Resistance, Junction to Ambient	R_{JA}	62.5	/W

/ Electrical Characteristics(Ta=25)

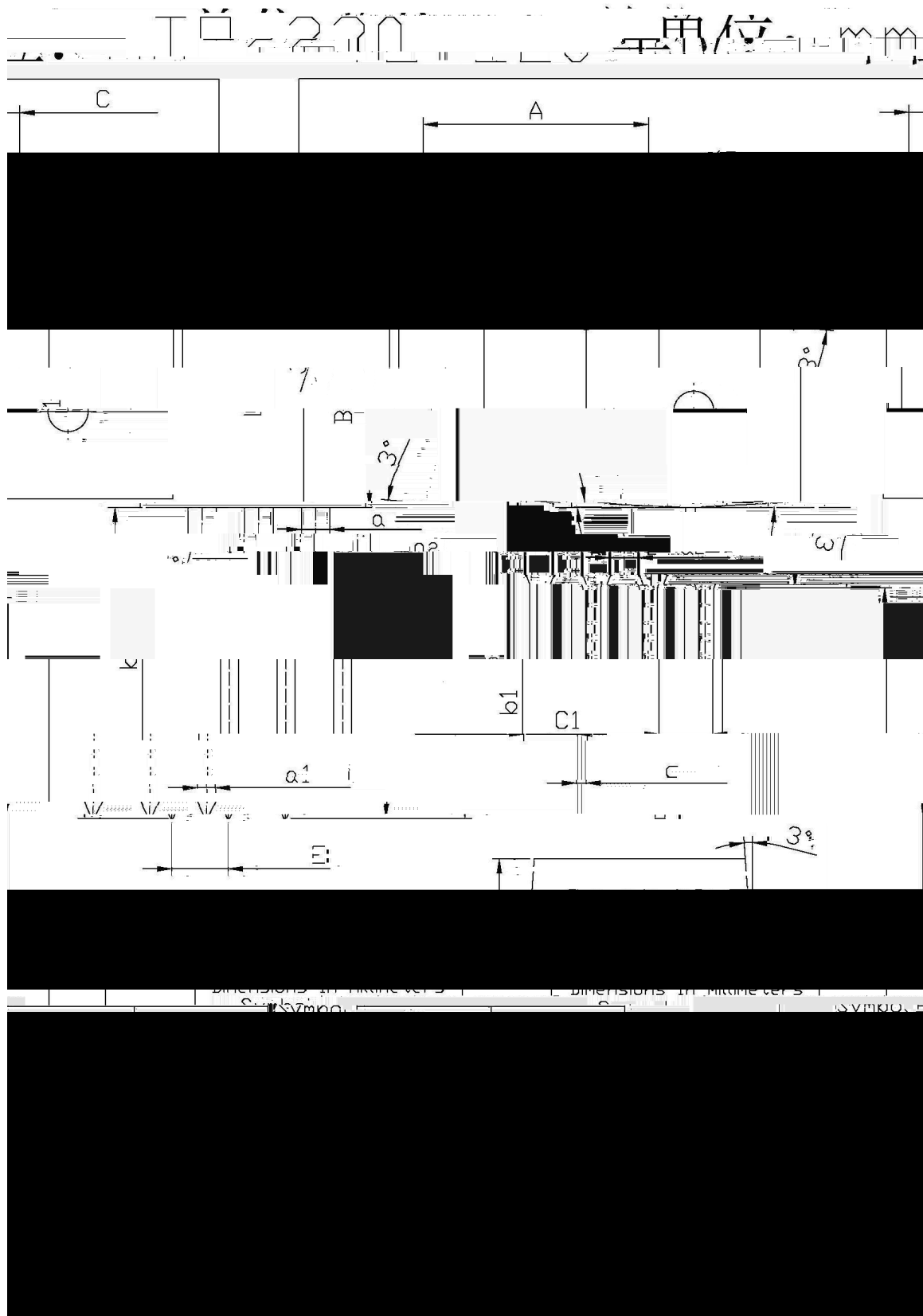
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	$*V_{CEO}$	$I_C=-10mA$ $I_B=0$	-250			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-250V$ $I_E=0$			-1	A
Emitter Cut-Off Current	I_{EBO}	$V_{BE}=-5V$ $I_C=0$			-1	A
DC Current Gain	$*h_{FE(1)}$	$V_{CE}=-5V$ $I_C=-1A$	5000			
	$*h_{FE(2)}$	$V_{CE}=-5V$ $I_C=-0.5A$	5000			
	$*h_{FE(3)}$	$V_{CE}=-5V$ $I_C=-2A$	3000			
Collector to Emitter Saturation Voltage	$*V_{CE(sat)}$	$I_C=-1A$ $I_B=0.1A$			-1.0	V
Base to Emitter On Voltage	$*V_{BE(on)}$	$V_{CE}=5V$ $I_C=-1A$			-1.5	V
Transition Frequency	f_T	$V_{CE}=-10V$ $I_C=-500mA$ $f=1MHz$	30			MHz

* $\leq 300\mu s$ $\leq 2\%$ *Pulse Test: Pulse Width 300 μs , Duty Cycle 2%.

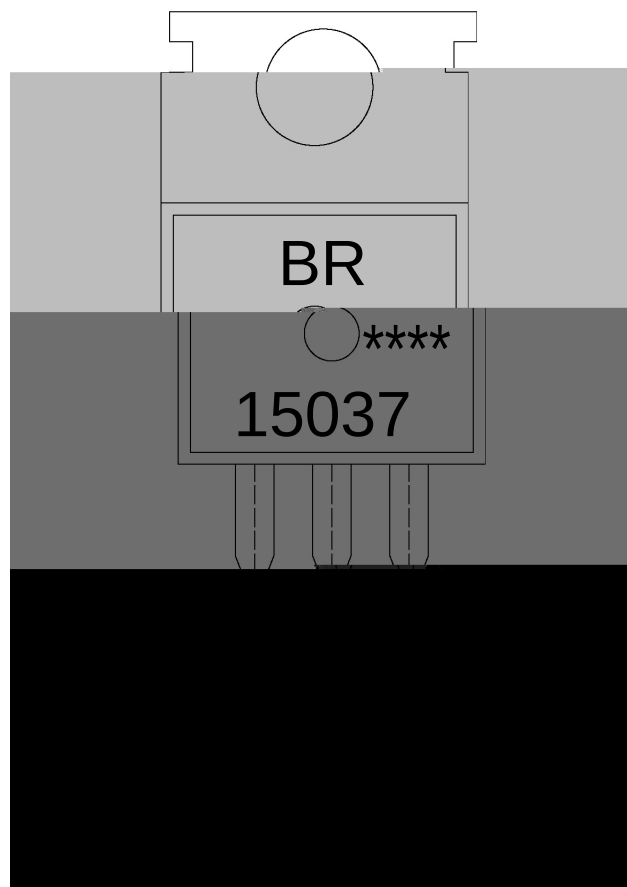
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

15037

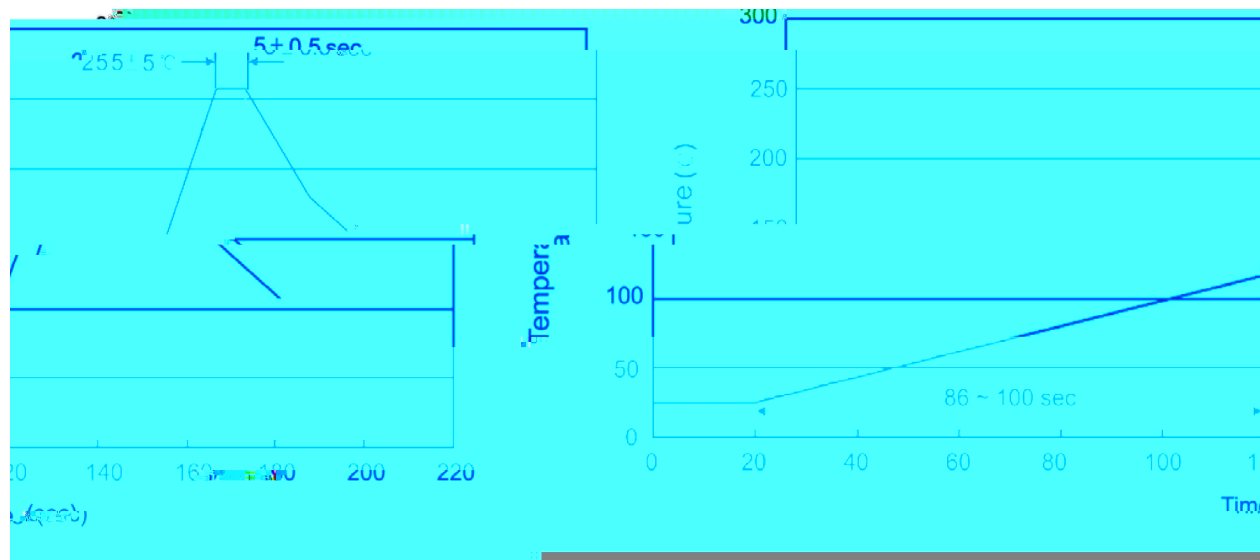
Note:

BR: Company Code

15037: 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	Units					Dimension (unit mm ³)		
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box
TO-220/F	50	20	1,000	5	5,000	532×31.4×5.5	555×164×50	575×290×180

/ Notices