/ Descriptions

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

/ Features

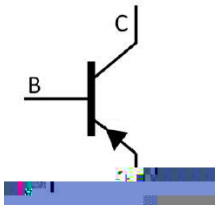
- MJE15036

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)

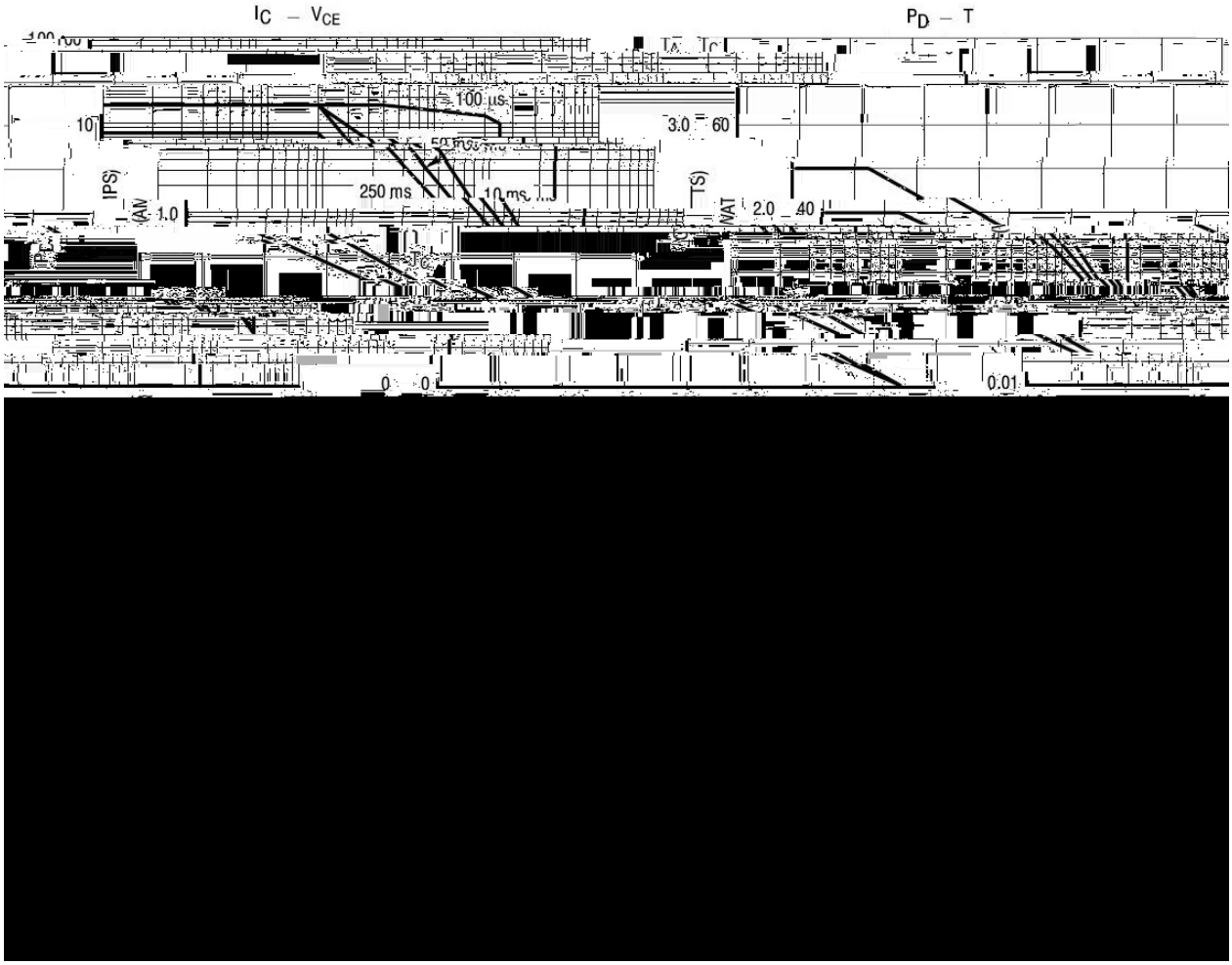
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-250	V
Collector to Emitter Voltage	V_{CEO}	-250	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-8	A
Base Current - Continuous	I_B	-2	A
Collector Power Dissipation	P_D	2	W
	P_D(Tc=25)	50	W
Junction Temperature	T_j	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)

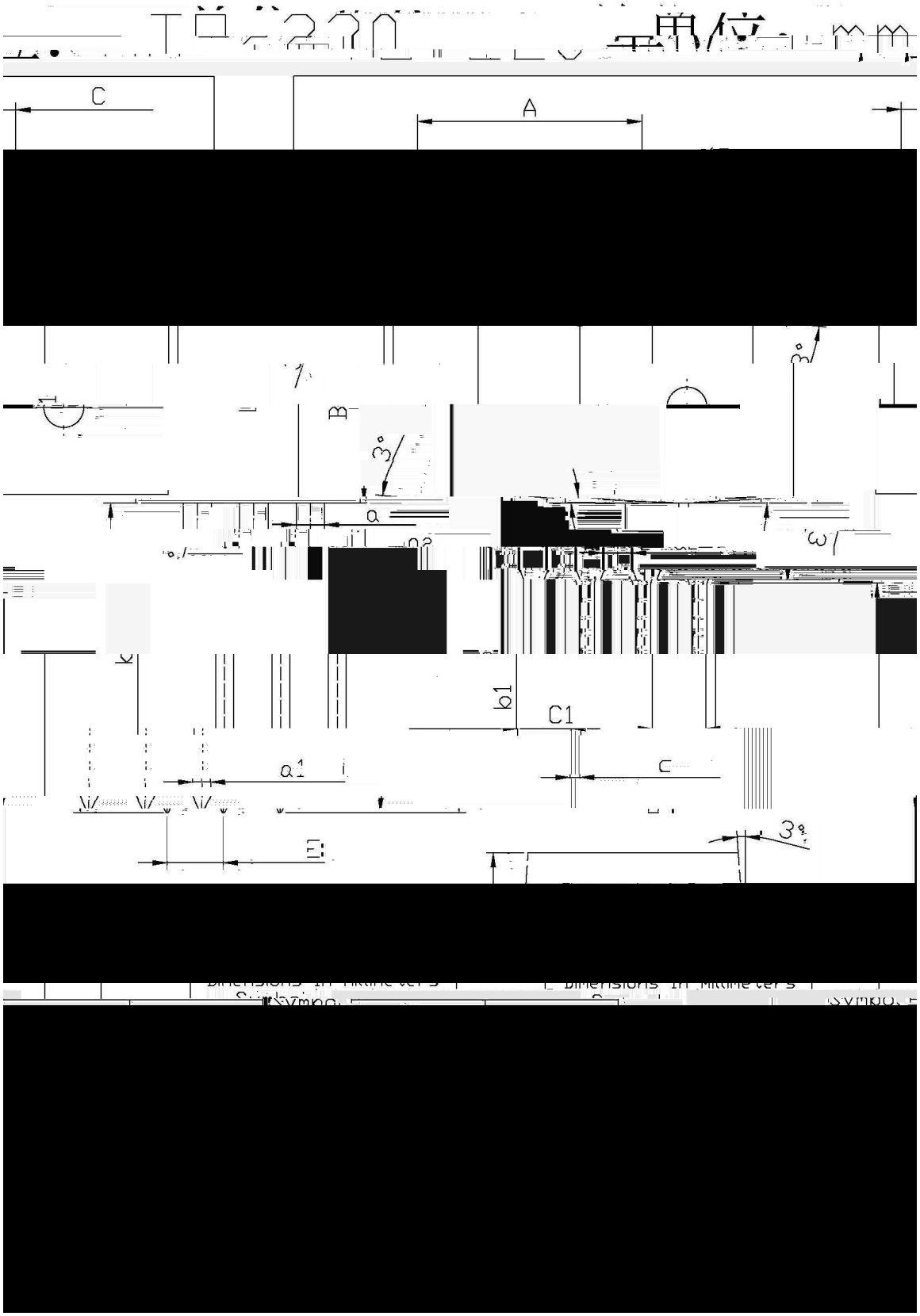
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	*V_{CEO}	I_C=-10mA I_B=0	-250			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-250V I_E=0			-1	A
Emitter Cut-Off Current	I_{EBO}	V_{BE}=-5V I_C=0			-1	A
DC Current Gain	*$h_{FE(1)}$	V_{CE}=-5V I_C=-1A	5000			
	*$h_{FE(2)}$	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

* ≤300μs ≤2% *Pulse Test: Pulse Width 300 s, Duty Cycle 2%.

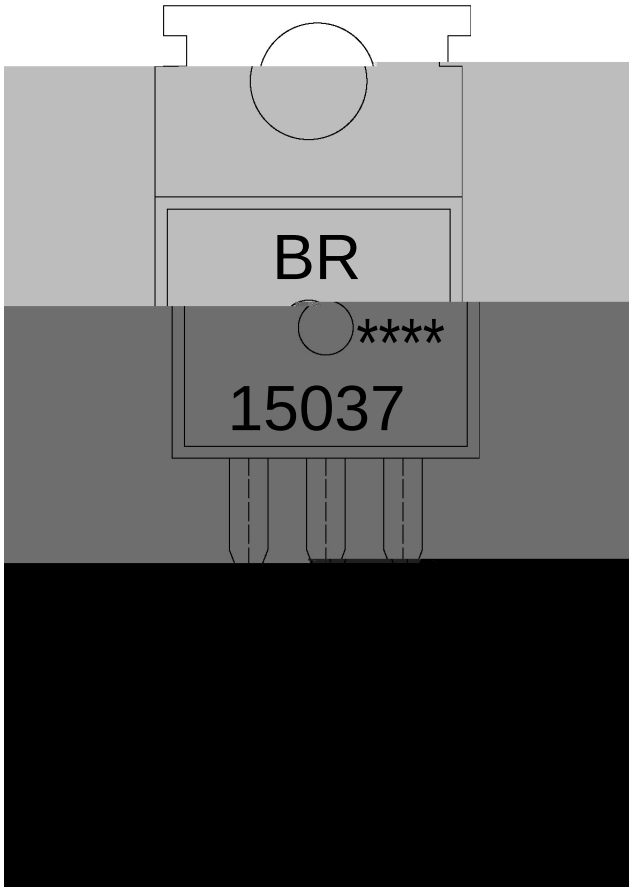
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

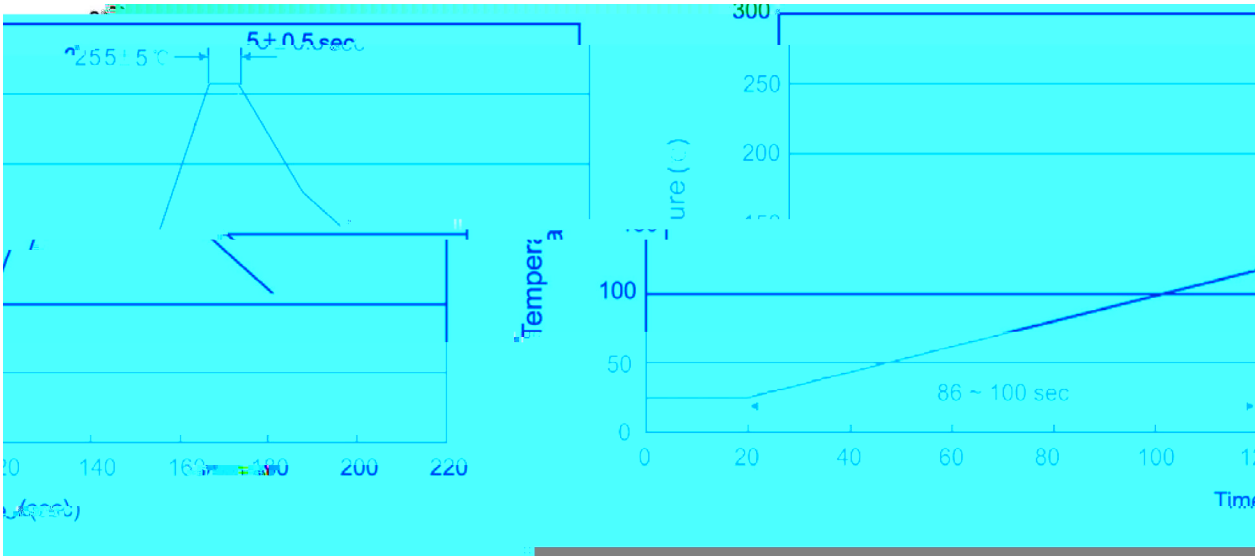
15037

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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;	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-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension		(unit mm³)
	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