/ Descriptions

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

/ Features

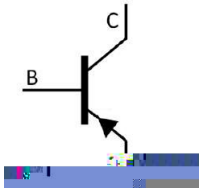
- MJE15030

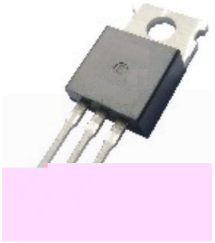
High DC current gain, High V_{CEO}, High f_T, Complementary pair with MJE15030.

/ Applications

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

/ Equivalent Circuit





PIN1 Base PIN 2 Collector PIN 3 Emitter

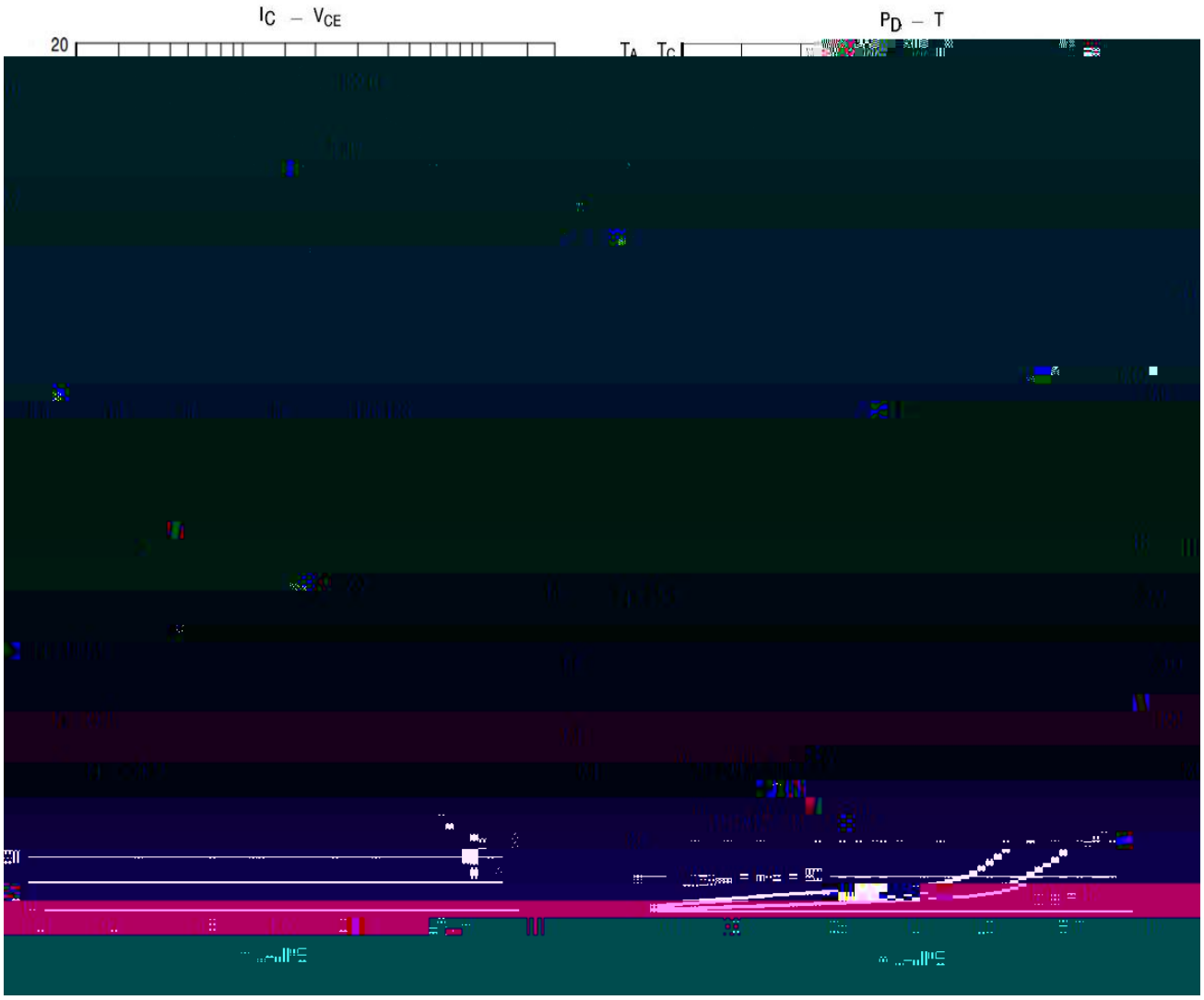
/ h_{FE} Classifications & Marking

See Marking Instructions.

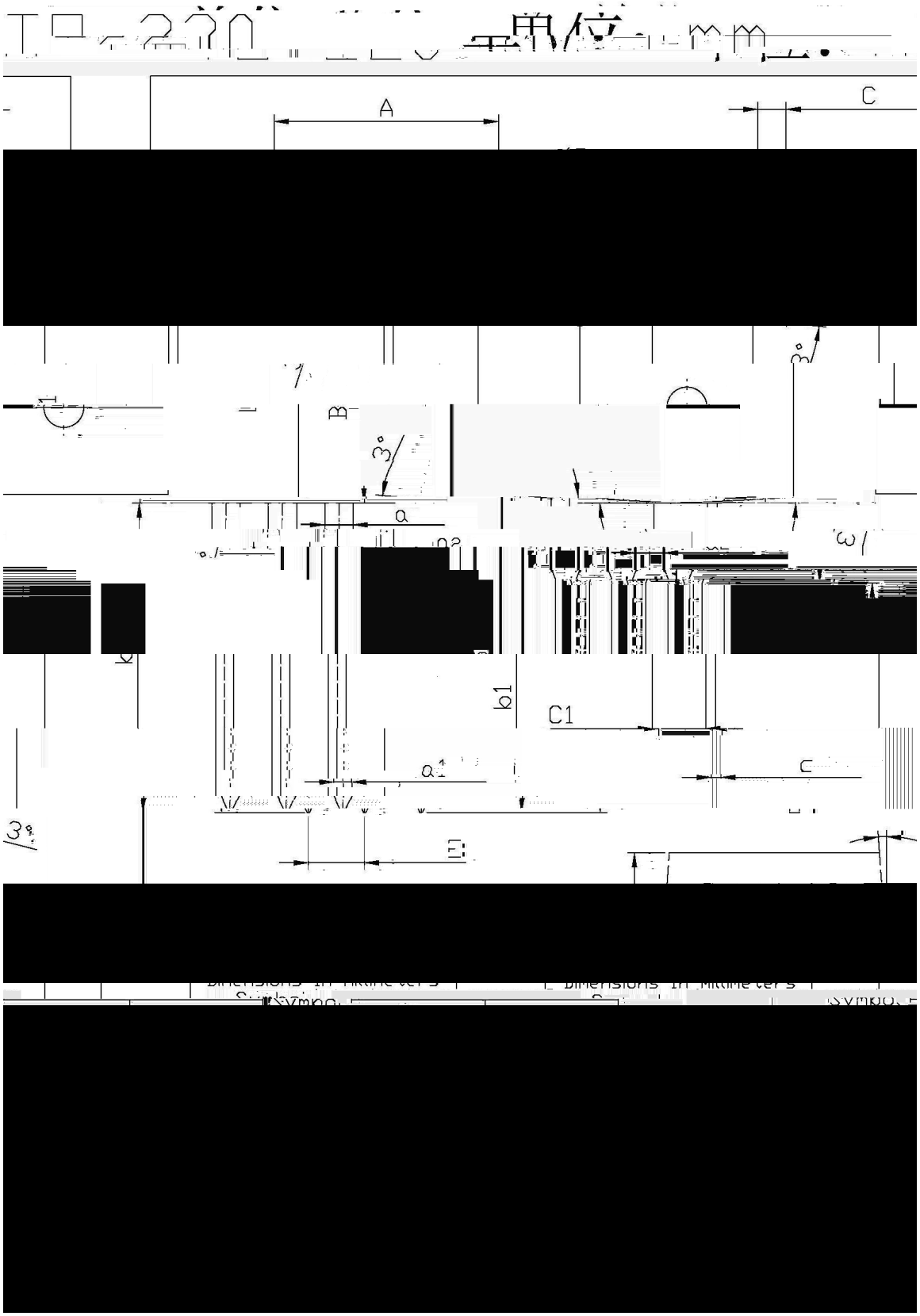
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-150	V
Collector to Emitter Voltage	V_{CEO}	-150	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-8.0	A
Base Current- Continuous	I_B	-2.0	A
Total Power Dissipation	P_D	2.0	W
	P_D(Tc=25)	50	W
Junction Temperature	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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage*	*V_{CEO}	I_C=-10mA I_B=0	-150			V
Collector Cut-Off Current	I_{CEO}	V_{CE}=-150V I_B=0			-0.1	mA
Collector Cut-Off Current	I_{CBO}	V_{CB}=-150V I_E=0			-10	A
Emitter Cut-Off Current	I_{EBO}	V_{BE}=-5V I		TA4		

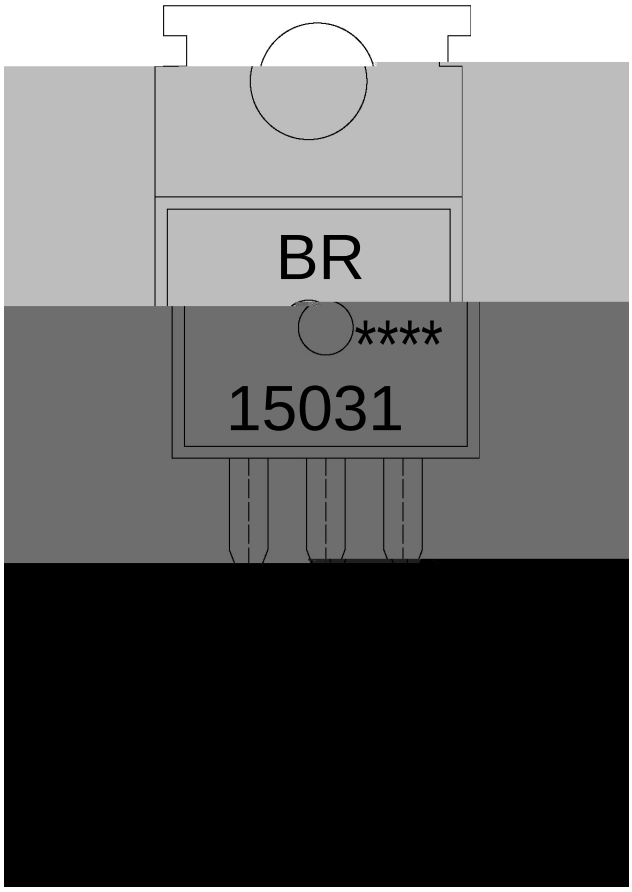
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

15031

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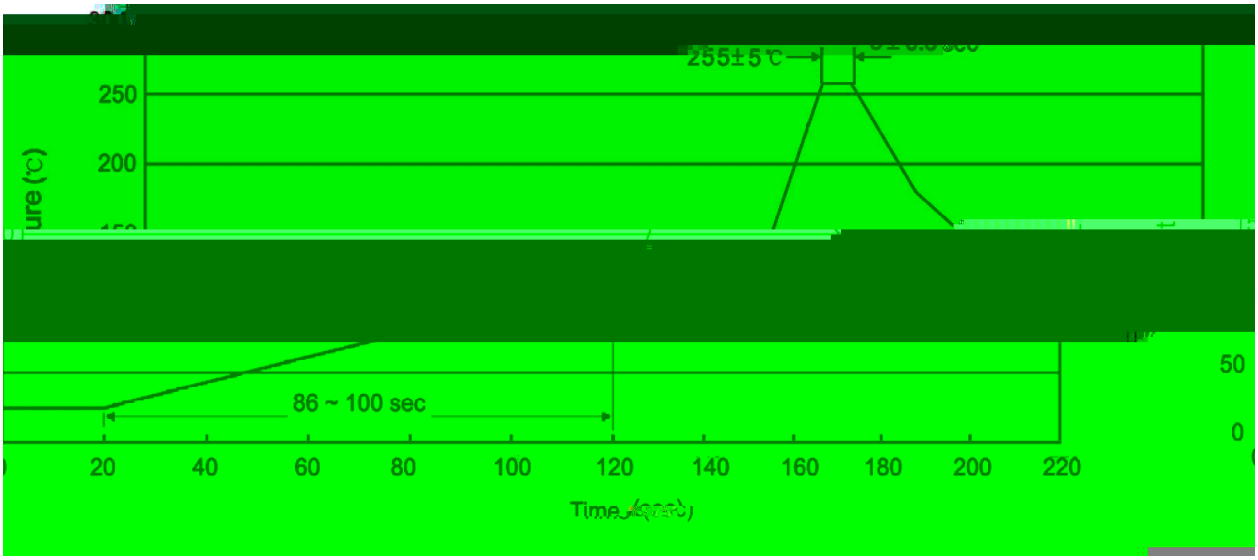
Note:

BR:	Company Code
15031:	Product Type.
****:	Lot No. Code, code change with Lot No.

( ) / Temperature Profile for Dip Soldering(Pb-Free)



1	25 150	60	90sec;	Note: 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