

/ Descriptions

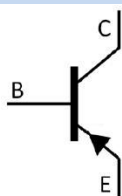
TO-220 NPN

/ Features

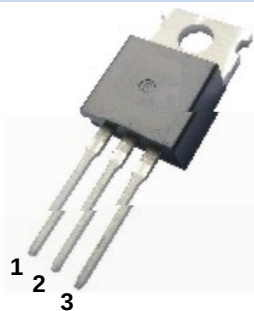
- MJE15039

/ Applications

/ Equivalent Circuit

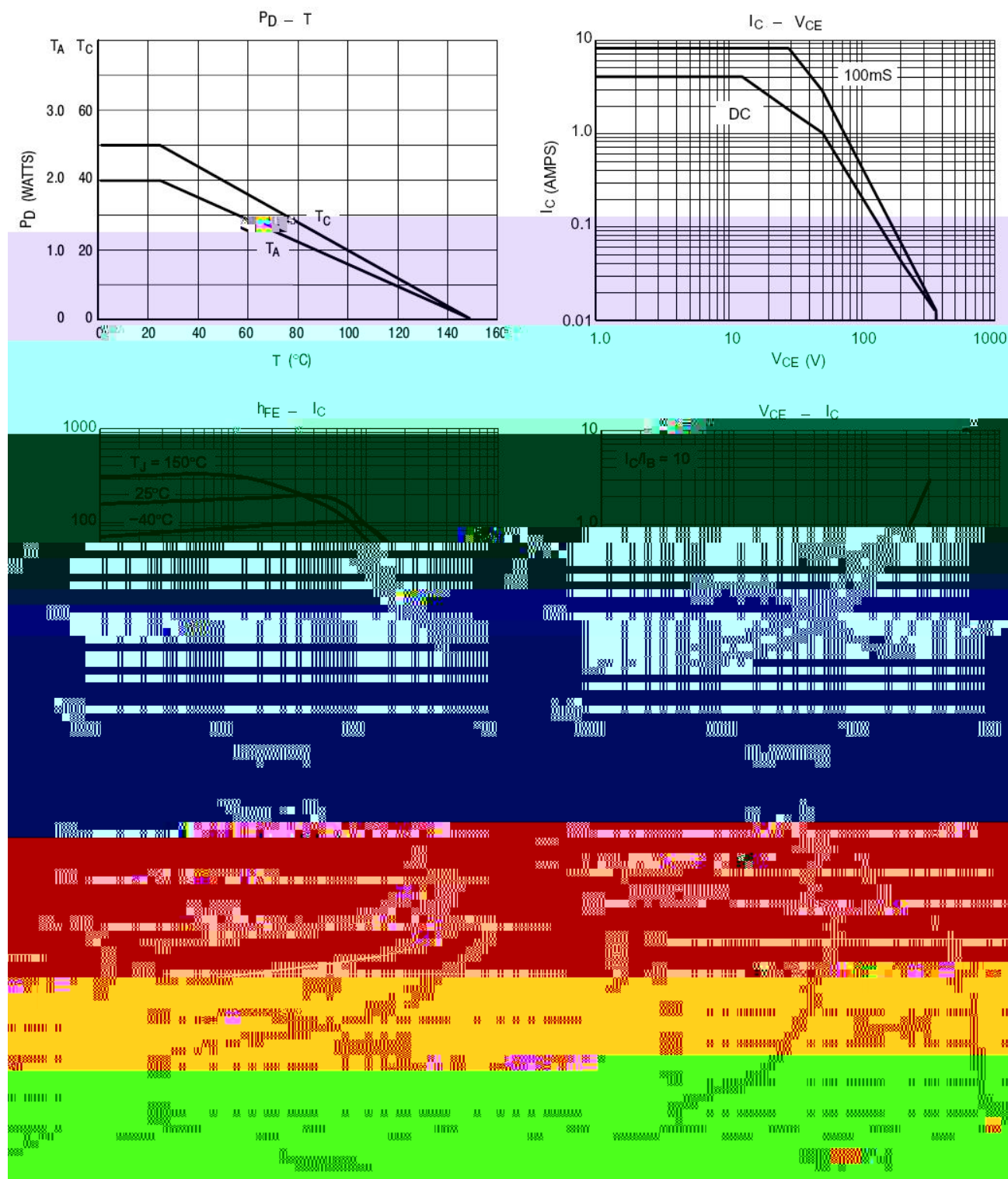


/ Pinning

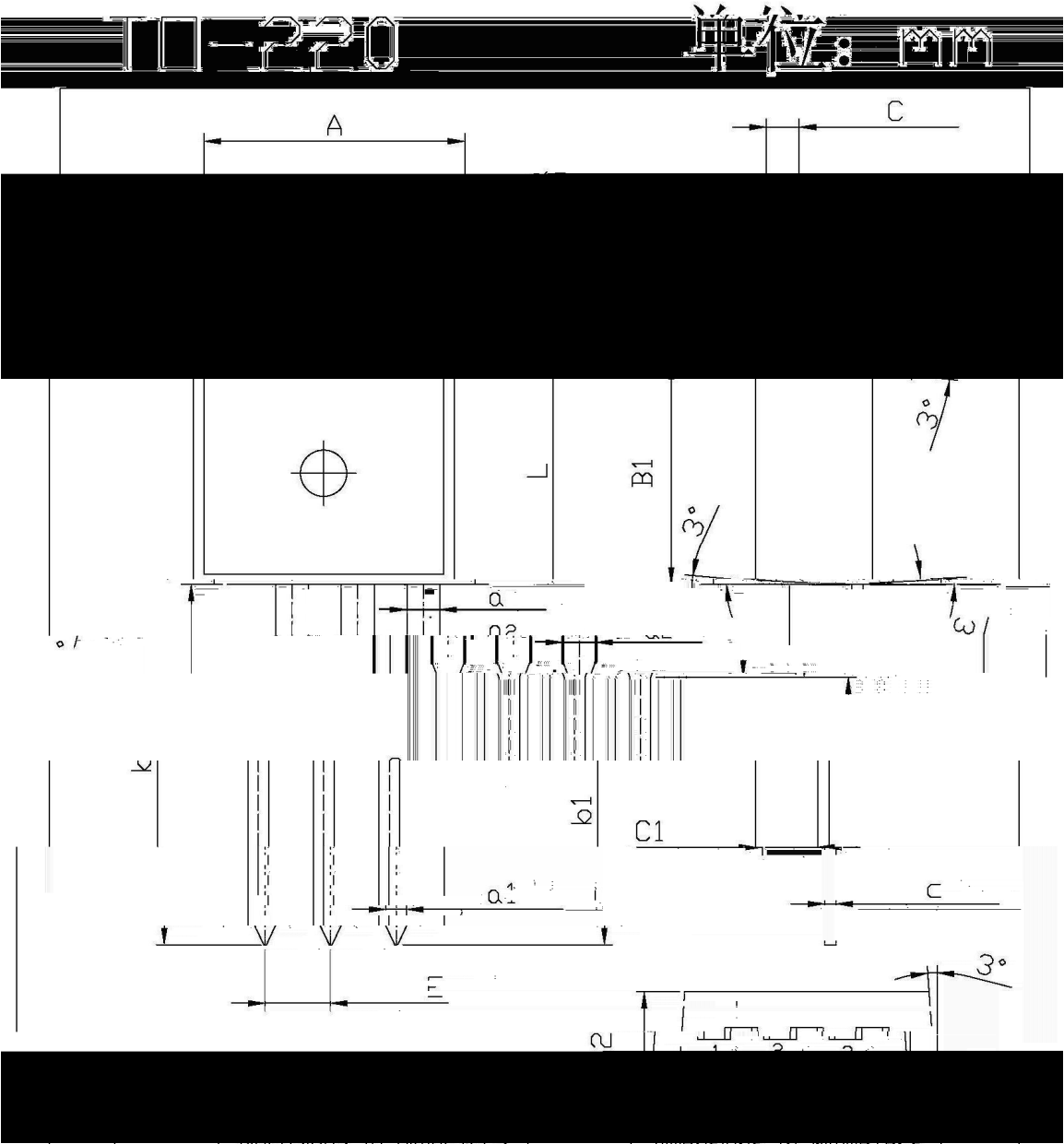


/ h_{FE} Classifications & Marking

Electrical Characteristic Curve



/ Package Dimensions



Symbol	Dimensions in Millimeters		Symbol	Dimensions in Millimeters	
	Min	Max		Min	Max
A	9.8	10.2	C	1.2	1.4
B	3.50	3.64	D	6.30	6.71
B1	15.7	16.1	B1	15.7	16.1
C	0.4	0.6	a	1.22	1.32
4	1.2	1.3	E	2.24	2.3
5			0.2	1.25	1.4

/ Marking Instructions

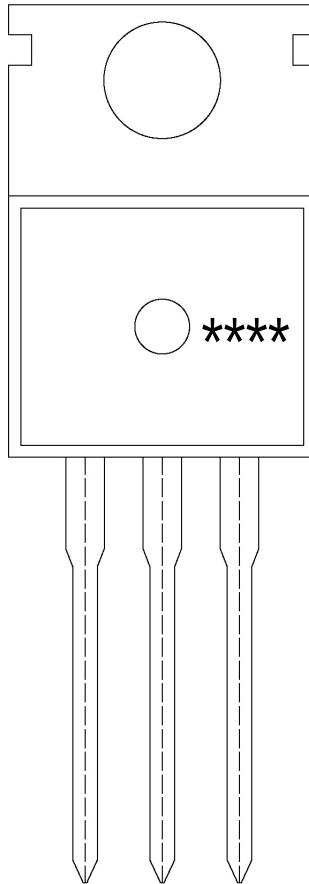


Figure 1 is a line graph showing the temperature profile of a sample during the heating process. The y-axis represents Temperature (°C) from 0 to 300, and the x-axis represents Time (sec) from 0 to 240. The curve shows a slow rise from 20°C at 20s to 115°C at 115s (labeled 86 ~ 100 sec), followed by a rapid rise to a peak of 255 ± 5 °C at 135s (labeled 5 ± 0.5 sec), and then a gradual decrease to 105°C at 180s.

$$\pm \qquad \qquad \qquad \pm \qquad \qquad \qquad \pm \qquad \qquad \qquad \pm$$

$\pm$ $\pm$ °C

	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

	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

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