

**/ Descriptions**

TO-220F          NPN          Silicon NPN transistor in a TO-220F Plastic Package.

**/ Features**

High Voltage, Large Current.

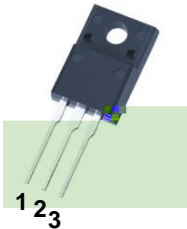
**/ Applications**

Humidifier, DC-DC converter, and general purpose.

**/ Equivalent Circuit**



**/ Pinning**



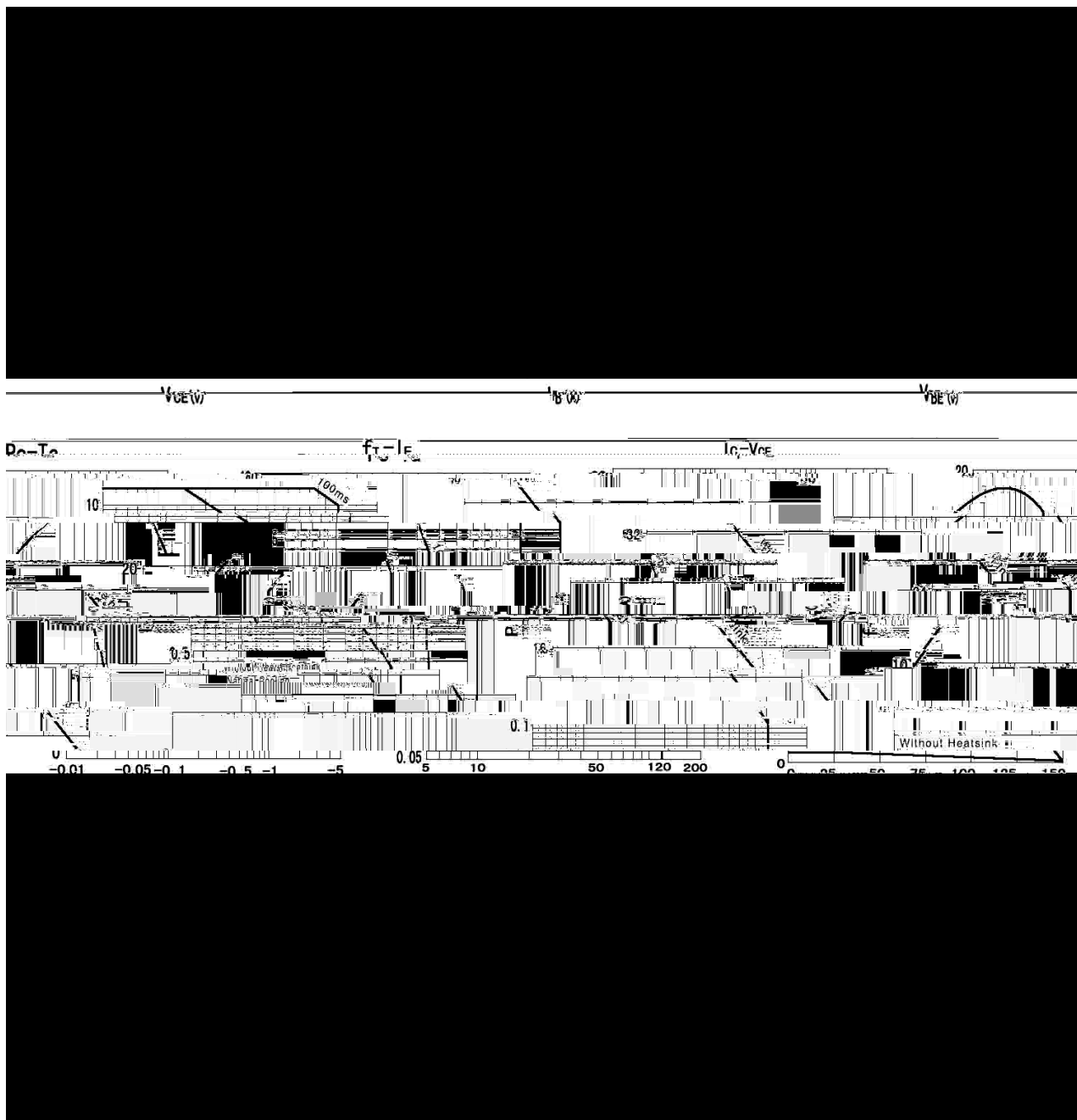
PIN1 Base          PIN 2 Collector          PIN 3 Emitter

**/  $h_{FE}$  Classifications & Marking**

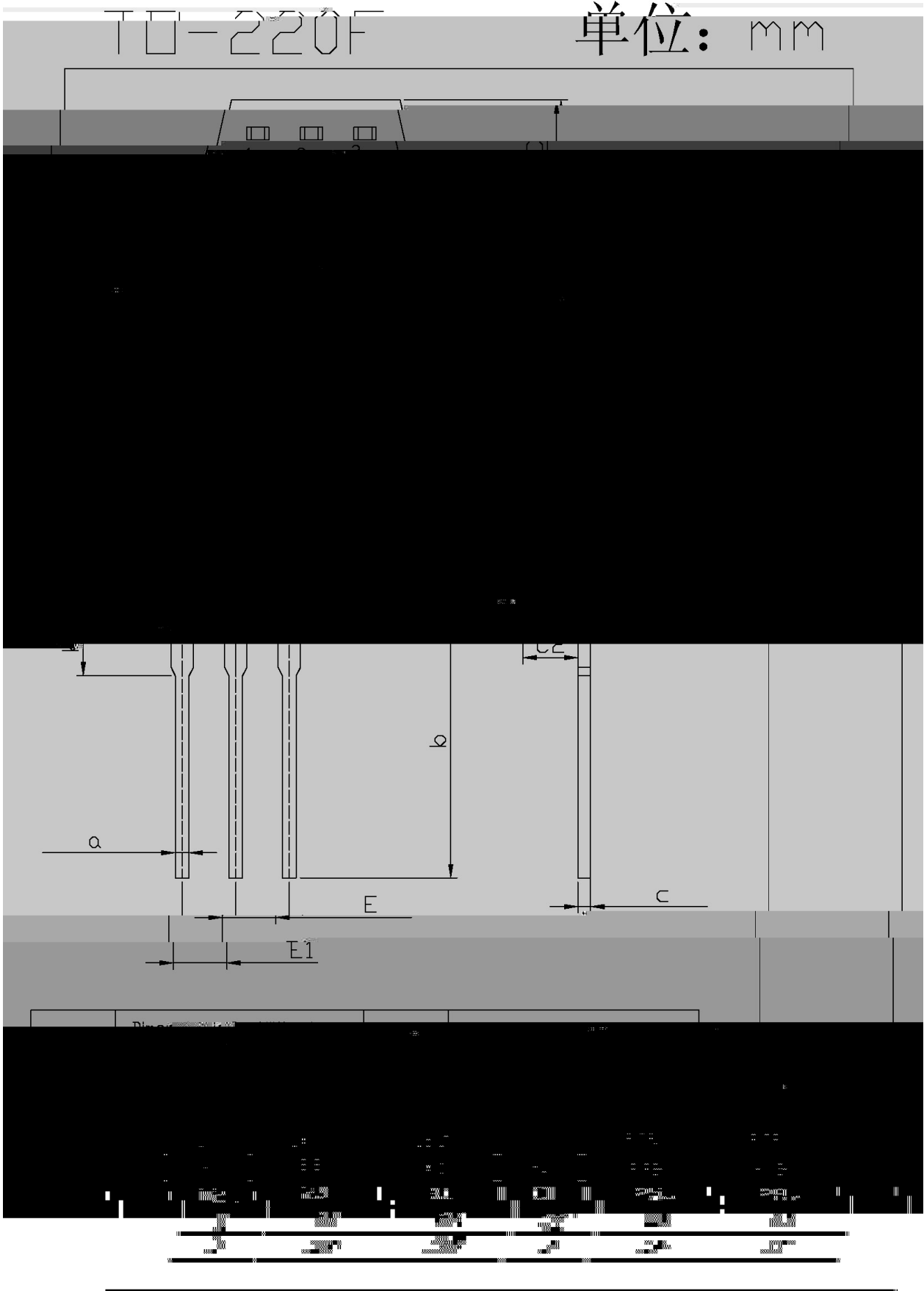
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	$V_{CBO}$	200	V
Collector to Emitter Voltage	$V_{CEO}$	120	V
Emitter to Base Voltage	$V_{EBO}$	8.0	V
Collector Current - Continuous	$I_C$	7.0	A
Base Current	$I_B$	3.0	A
Collector Power Dissipation	$P_C (T_C=25 \text{ } ^\circ\text{C})$	40	W
Junction Temperature	$T_j$	150	
Storage Temperature Range	$T_{stg}$	-55 150	

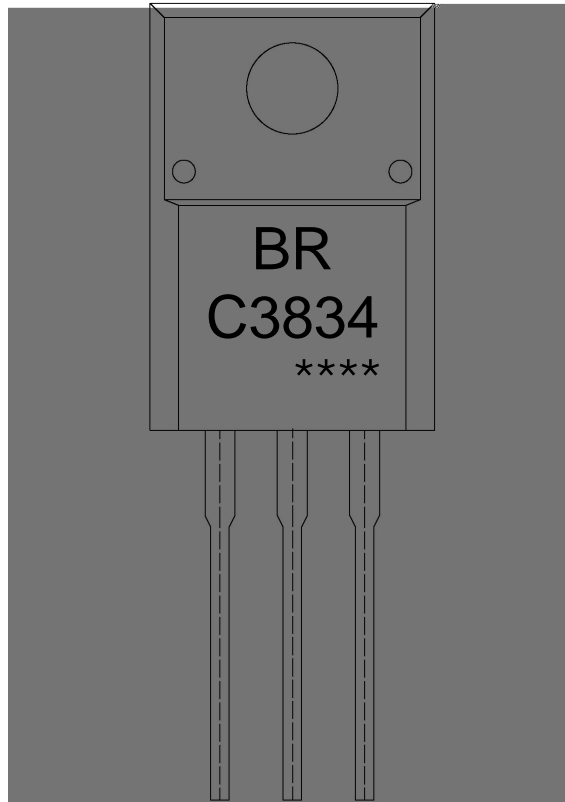
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



BR

C3834

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Note:

BR: Company Code.

C3834: Product Type.

\*\*\*\*: Lot No. Code, code change with Lot No.

**2SC3834F**  
Rev.E Mar.-2016

**DATA SHEET**