2SC5371

Rev.F Mar.-2016

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

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

/ Features

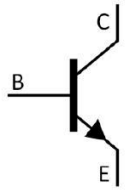
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High $V_{CEO,}$ small I_{CBO} and $V_{CE(sat)}$.

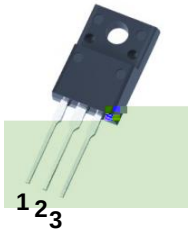
/ Applications

Color TV deflection speed modulating and high-frequency general purpose amplifiers.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	R	O
h_{FE} Range	60 140	100 240

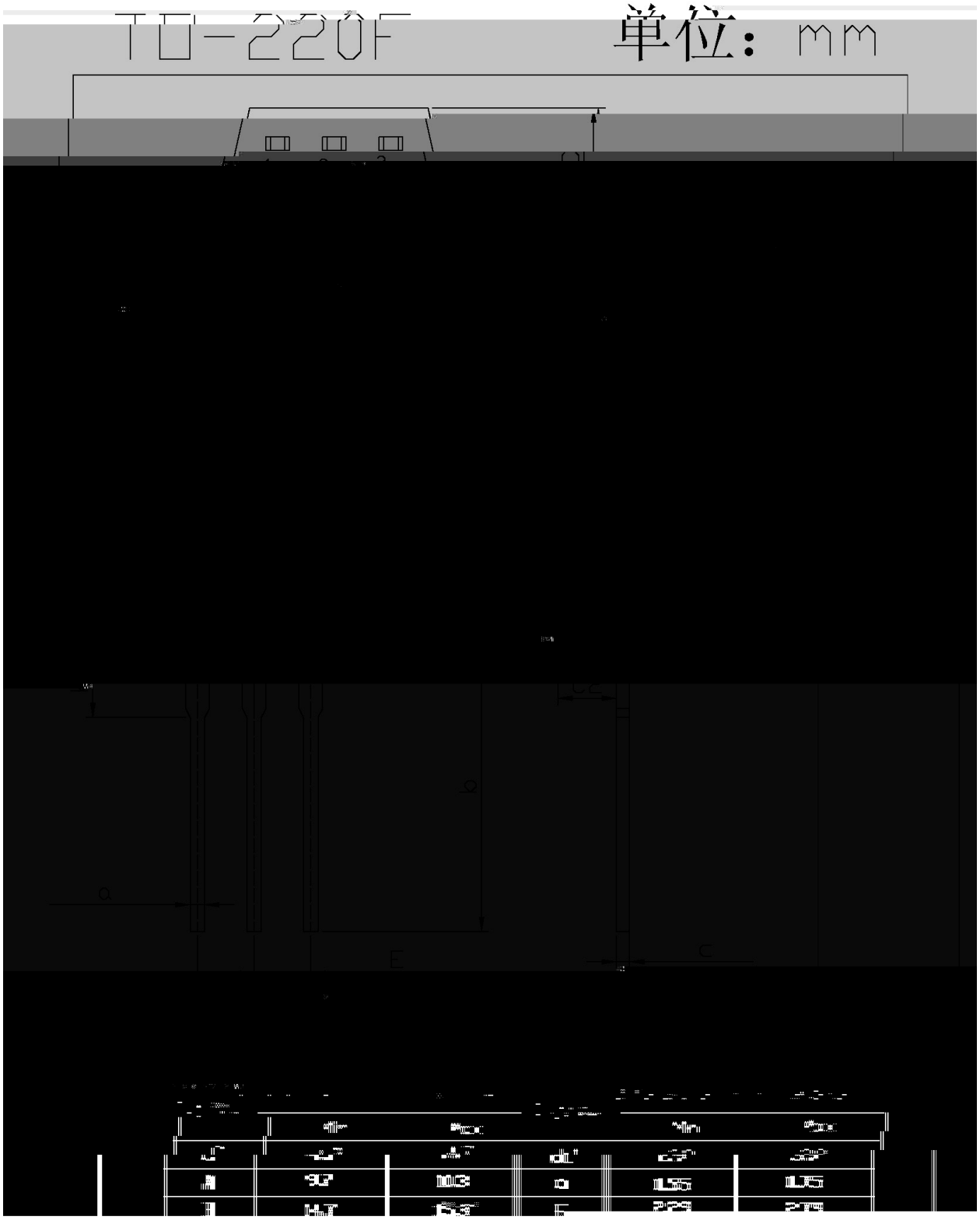
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	180	V
Collector to Emitter Voltage	V_{CEO}	160	V
Emitter to Base Voltage	V_{EBO}	6.0	V
Collector Current - Continuous	I_C	1.5	A
Collector Power Dissipation	P_C	1.5	W
Collector Power Dissipation	P_C(Tc=25)	25	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

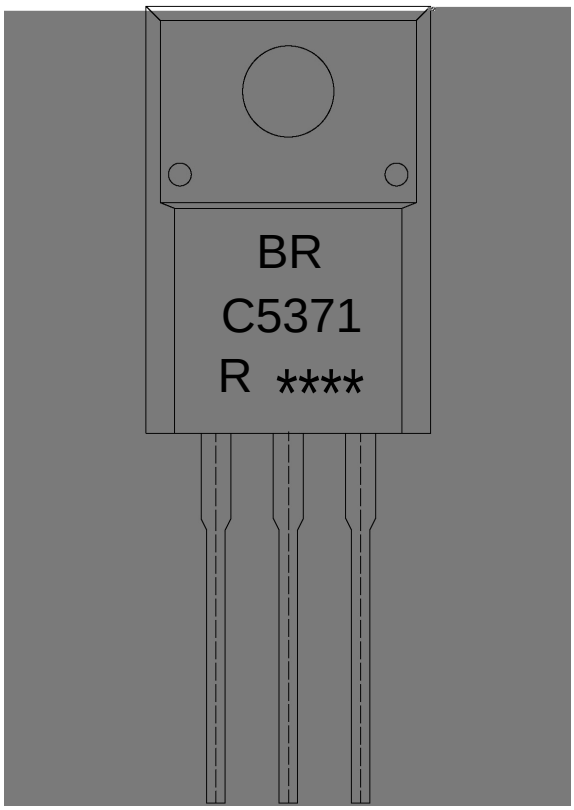
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=180V I_E=0			10	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=6.0V I_C=0			10	μA
DC Current Gain	h_{FE}	V_{CE}=5.0V I_C=200mA	60		240	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA I_B=50mA			1.0	V
Transition Frequency	f_T	V_{CE}=10V I_C=50mA	50			MHz

/ Package Dimensions



/ Marking Instructions



BR

C5371

R: h_{FE}

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Note:

BR:	Company Code.
C5371:	Product Type.
R:	h_{FE} Classifications Symbol.
****:	Lot No. Code, code change with Lot No.