

/ Descriptions

WR0553I M M E QSQ Æ M y s ll 1 Silicon NPN transistor in a TO-220F Plastic Package.

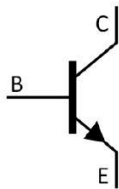
/ Features

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Low $V_{CE(sat)}$, wide SOA, complements the 2SB1566.

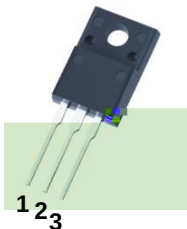
/ Applications

Вольта регулятор, DC-DC преобразователь и реле драйвер аудио частоты мощности усилитель.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ Emitter

/ h_{FE} Classifications & Marking

h _{FE} Classifications Symbol	E	F
h _{FE} Range	100 200	160 320

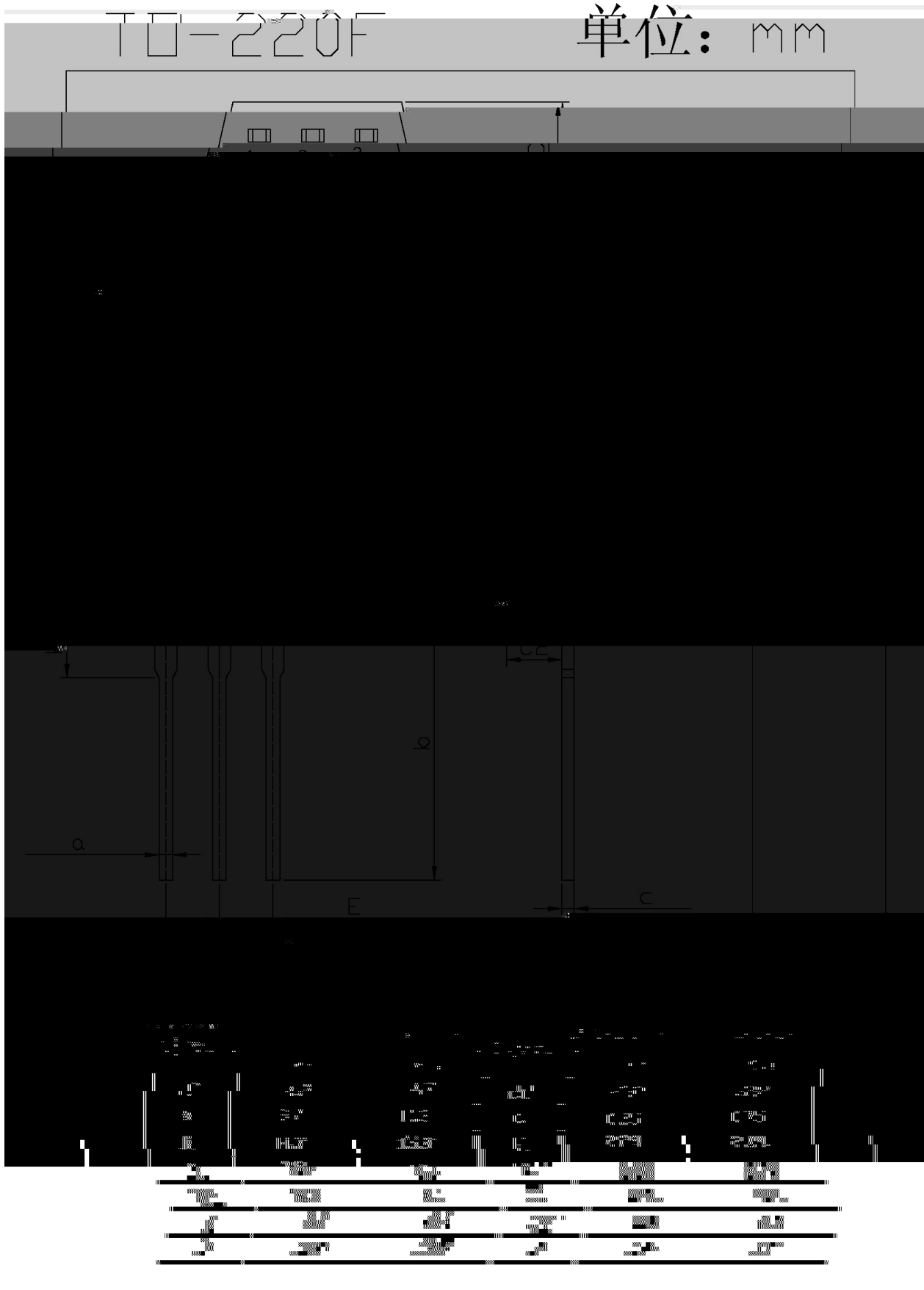
/ Absolute Maximum Ratings(Ta=25 °C)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	5.0	V
Collector Current - Continuous	I_C	3.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	$P_C(T_C=25^\circ C)$	25	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

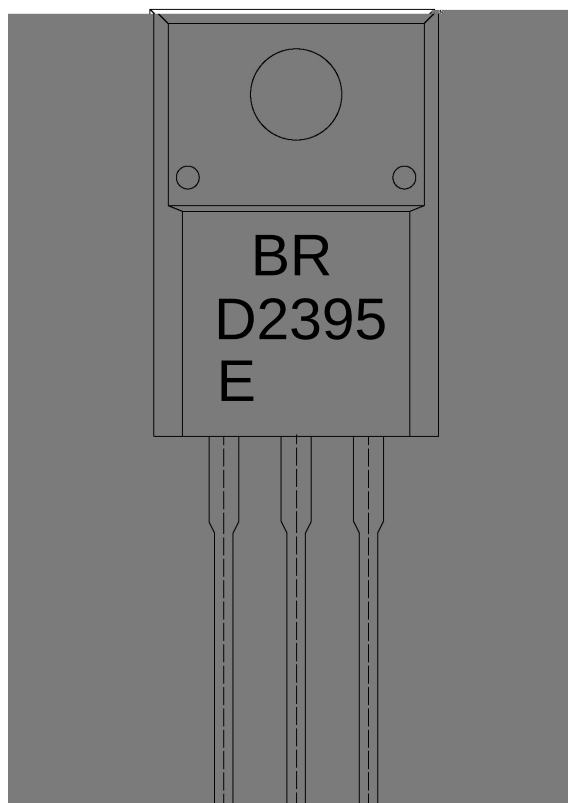
/ Electrical Characteristics(Ta=25 °C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=50\mu A$	60			V
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=1.0mA$	50			V
Emitter to Base Breakdown Voltage	V_{EBO}	$I_E=50\mu A$	5.0			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=40V$ $I_E=0$			1.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=4.0V$ $I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=5.0V$ $I_C=500mA$	100		320	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0A$ $I_B=0.2A$			1.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2.0A$ $I_B=0.2A$			1.5	V
Transition Frequency	f_T	$V_{CE}=5.0V$ $I_C=500mA$		100		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $f=1.0MHz$ $I_E=0$		35		pF

/ Package Dimensions



/ Marking Instructions



Б " X

EU X

G56<8 X

H=

---- X

Note:

BR:

D2395:

E:

****:

К 3 " П

К 3 " П

К KIH⁶ П

К 1 F H^N П 1 6 1 F H^N П

Company Code.

Product Type.

h_{FE} Classifications Symbol

Lot No. Code, code change with Lot No.

- 1.Preheating:25~150 ℃ , Time:60~90sec.
- 2.Peak Temp.:255 ± 5 ℃ , Duration:5 ± 0.5sec.
3. Cooling Speed: 2~10 ℃ /sec.

[illegible]