/ Descriptions

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

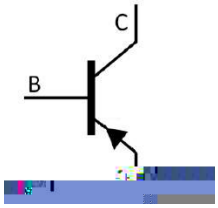
/ Features

High breakdown voltage, excellent current characteristics.

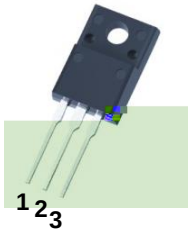
/ Applications

TV vertical output, audio output driver and general purpose amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

See Marking Instructions.

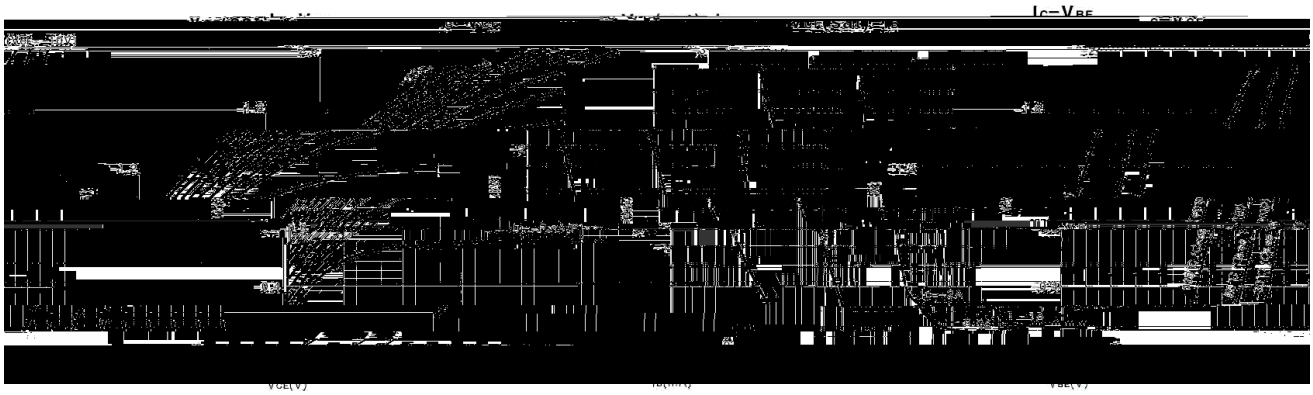
/ Absolute Maximum Ratings(Ta=25)

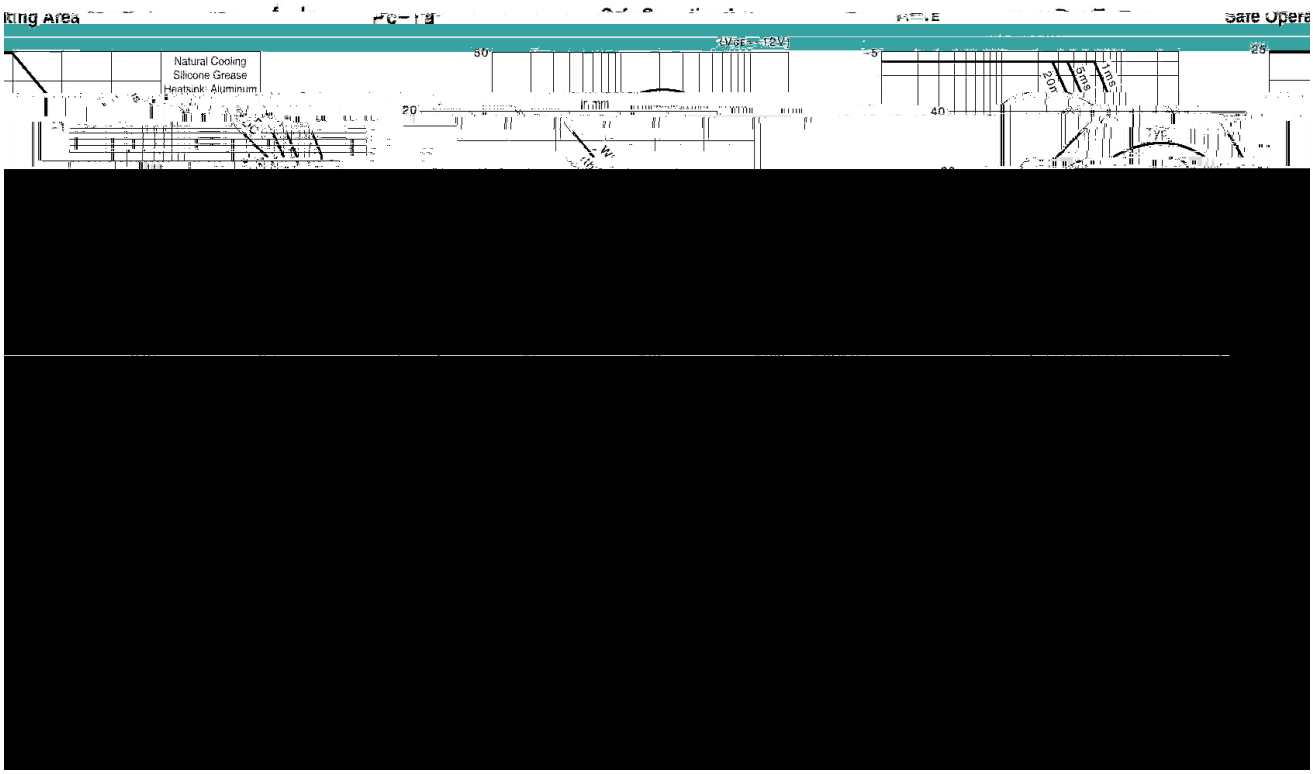
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-200	V
Collector to Emitter Voltage	V_{CEO}	-200	V
Emitter to Base Voltage	V_{EBO}	-6.0	V
Collector Current - Continuous	I_C	-2.0	A
Base Current	I_B	-1.0	A
Collector Power Dissipation	P_C(Tc=25)	25	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

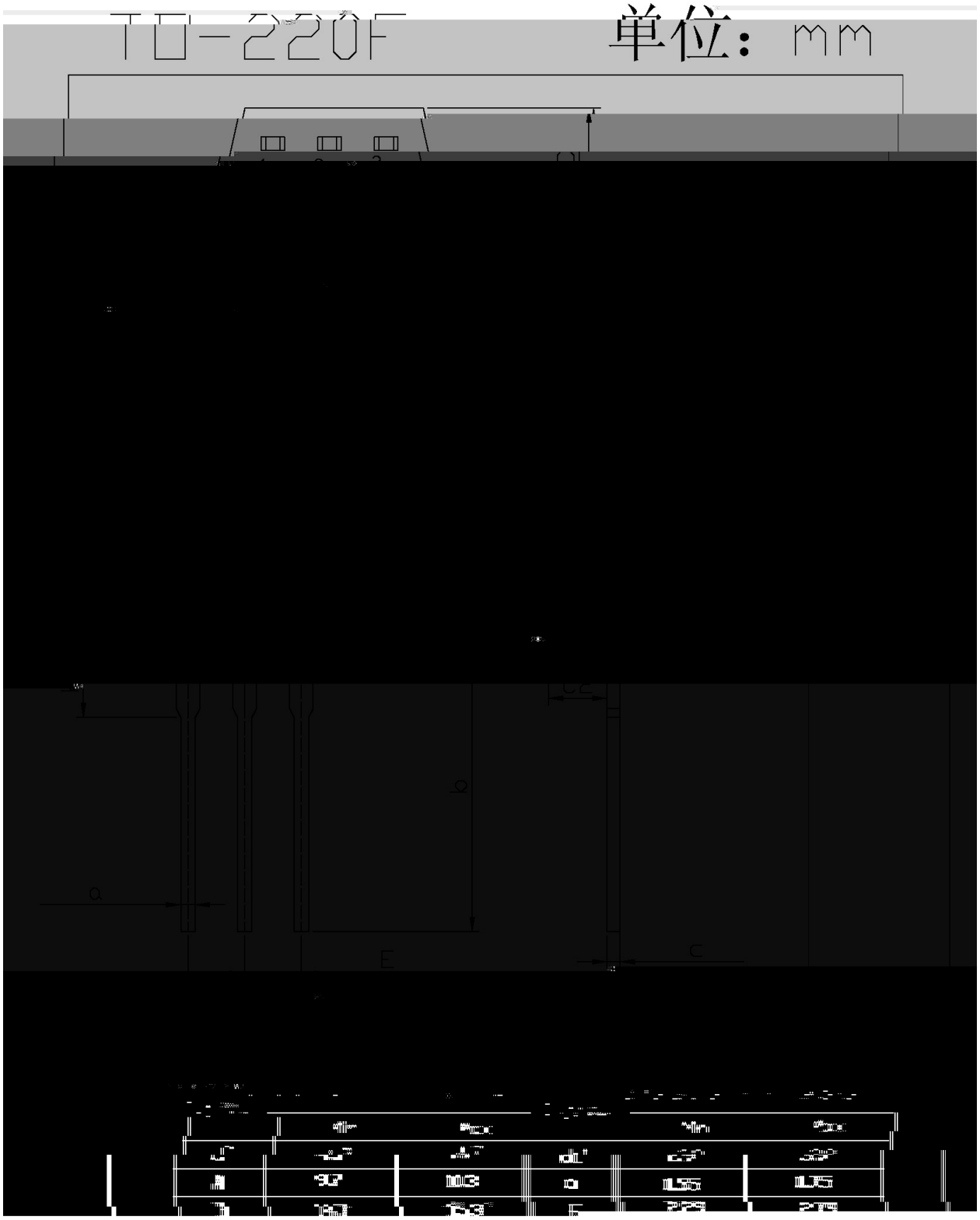
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CEO}	I_C=-25mA I_E=0	-200			V
Collector Cut-Off Current	I_{CBO}	V_{CB}=-200V I_E=0			-10	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-6.0V I_C=0			-10	μA
DC Current Gain	h_{FE}	V_{CE}=-10V I_C=-700mA	60		200	
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-700mA I_B=-70mA			-1.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-500mA I_B=-50mA		-0.9	-1.2	V
Transition Frequency	f_T	V_{CE}=-12V I_E=200mA		20		MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V f=1.0MHz		60		pF

/ Electrical Characteristic Curve

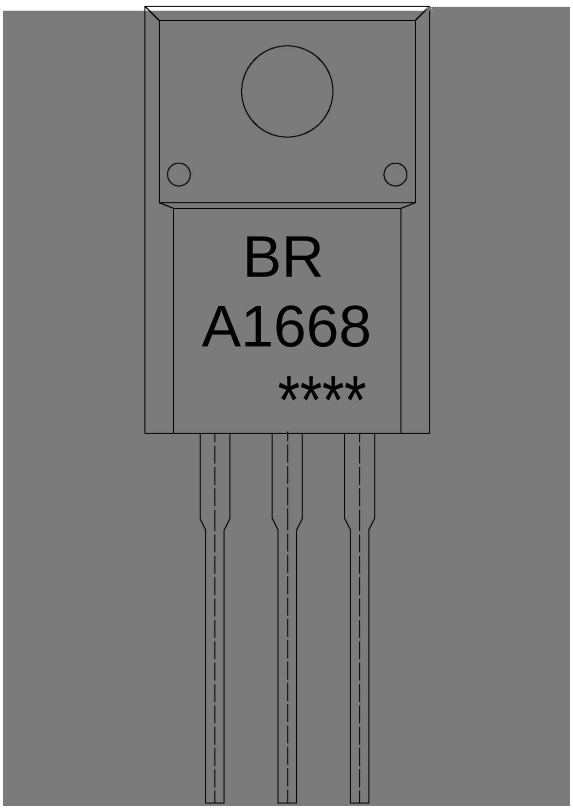




/ Package Dimensions



/ Marking Instructions



BR

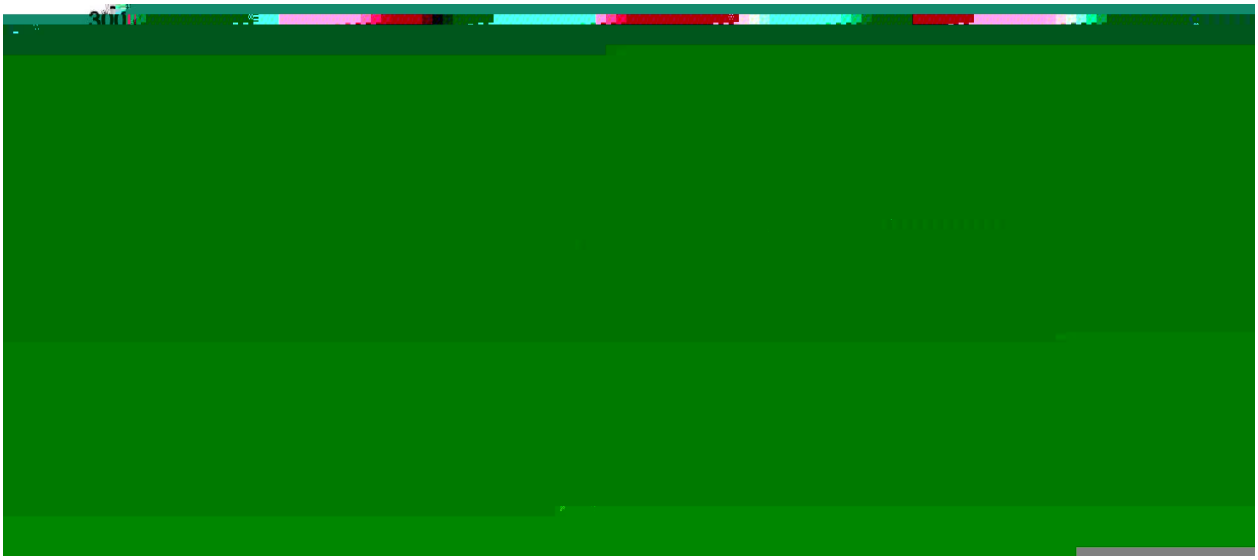
A1668

****

Note:

BR:	Company Code.
A1668:	Product Type.
****:	Lot No. Code, code change with Lot No.

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



			Note:
1	25 150	60 90sec;	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 mm^3)
	Units/Bag /	Bags/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Bag	Inner Box	Outer Box