/ Descriptions

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

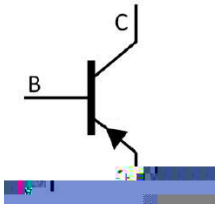
/ Features

Complementary to the 2SD1585.

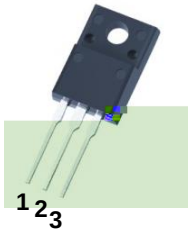
/ Applications

Audio frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

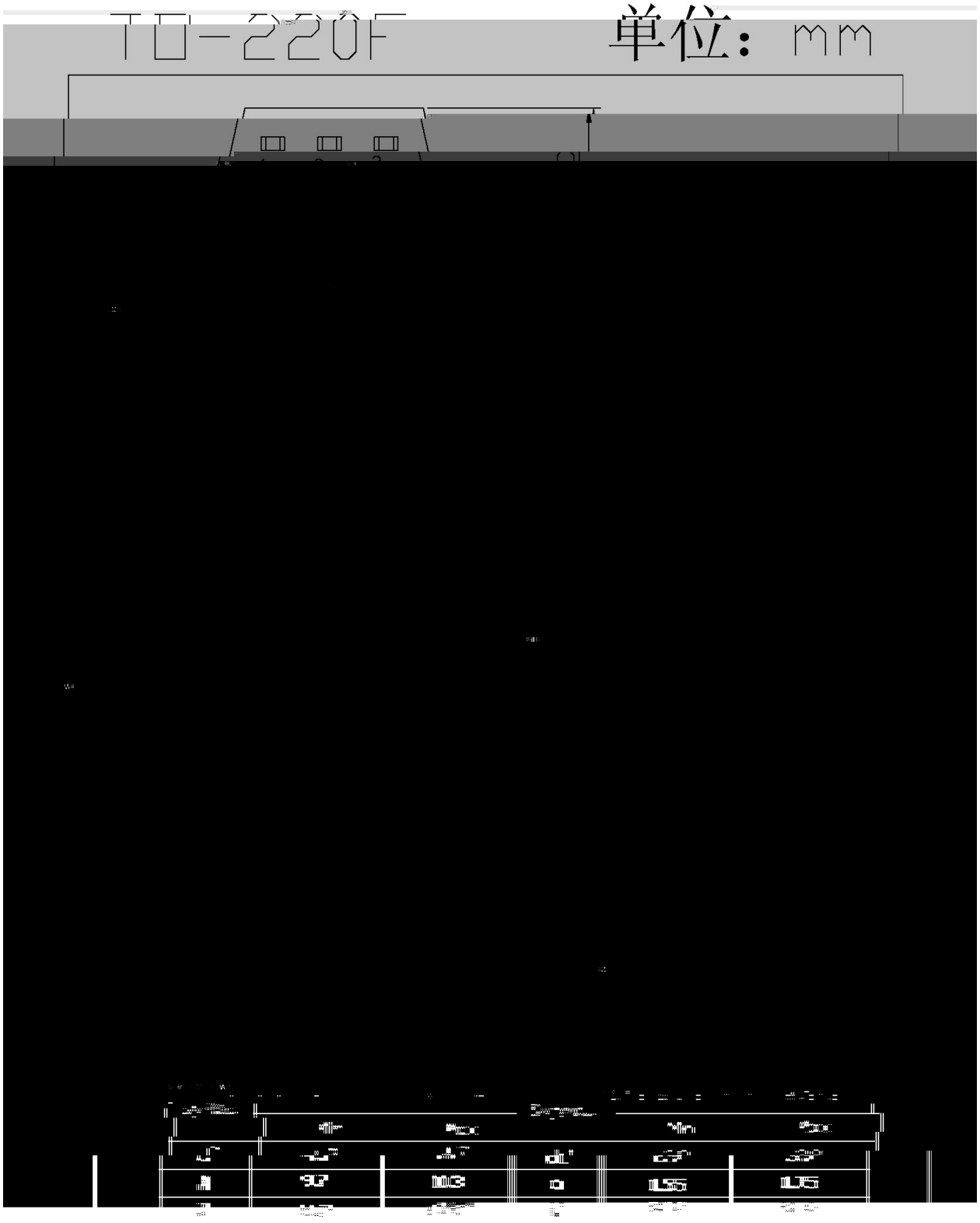
h_{FE} Classifications Symbol	M	L	K
h_{FE} Range	40 80	60 120	100 200

/ Absolute Maximum Ratings(T)

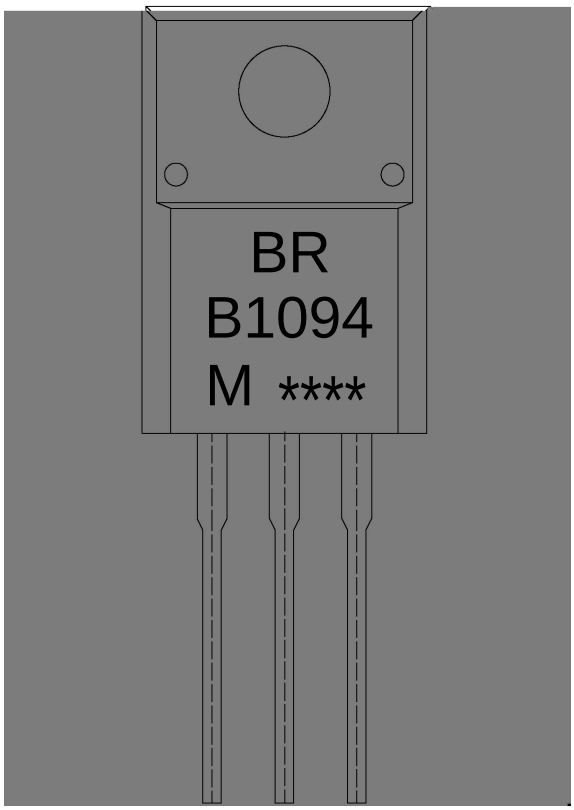
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-7.0	V
Collector Current - Continuous	$I_{C(DC)}$	-3.0	A
Collector Current – Continuous(Pulse)	$I_{C(pulse)}$	-5.0	A
Collector Power Dissipation	P_C	2.0	W
Collector Power Dissipation	P_C (Tc=25)	15	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	V_{CB}=-60V I_E=0			-10	μA
Emitter Cut-Off Current	I_{EBO}	V_{EB}=-7.0V $_C$=0				μA
DC Current Gain	$h_{FE(1)}$	V_{CE}=-5.0V I_C=-500mA	40			
	$h_{FE(2)}$	V_{CE}=-5.0V I_C=-50mA	20			
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-2.0A I_B=-200mA				
Base to Emitter Voltage	$V_{BE(sat)}$	I_C=-2.0A I_B=-200mA				
ansition Frequency f	$_T$	V_{CE}=-5.0V I_E=100mA		20	MHz	
Collector output capacitance	C_{ob}	V_{CB}=-10V I_E=0 f=1.0MHz		70		pF

/ Package Dimensions



/ Marking Instructions



Note:

BR:	Company Code.
B1094:	Product Type.
M:	h_{FE} Classifications Symbol
****:	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
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

/ TUBE

Package Type	Units					Dimension		(unit mm^3)
	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

/ Notices