2SB1094

Rev.F Mar.-2016

DATA SHEET

/ Descriptions

WR0553I ṂṂ Ł SQS ÆṀ ч s ‖ ㄱ Silicon PNP transistor in a TO-220F Plastic Package.

/ Features

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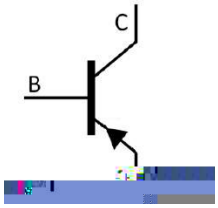
Complementary to the 2SD1585.

/ Applications

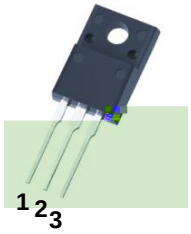
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Audio frequency power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 χ Base PIN 2 χ Collector PIN 3 χ 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)

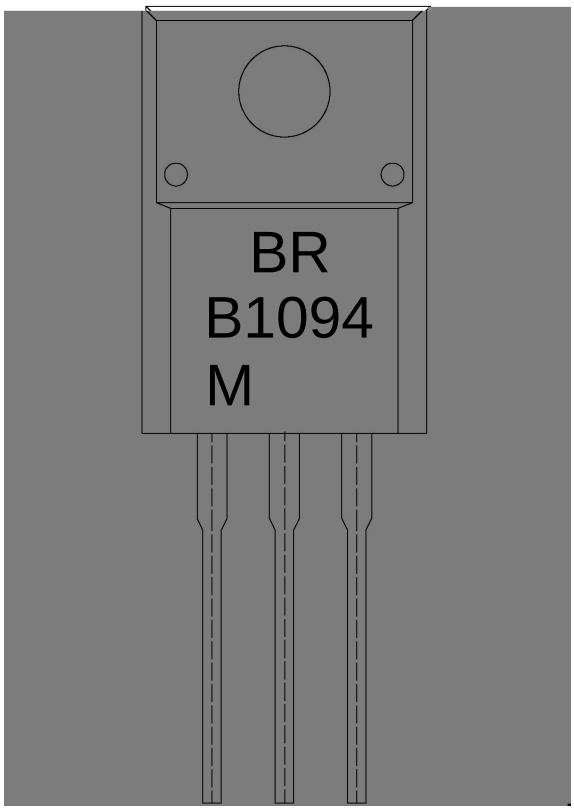
v ‴Ω Parameter	ϒ N Symbol	‴Ω Ö Rating	D Ꮒ Unit
Collector to Base Voltage	V_{CBO}	-60	V
Collector to Emitter Voltage	V_{CEO}	-60	V
Emitter to Base Voltage	V_{EBO}	-7.0	V
Collector Current - Continuous	$I_{C(DC)}$	-3.0	A
Collector Current – Continuous(Pulse)	$I_{C(pulse)}$	-5.0	A
Collector Power Dissipation	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	

v ‴Ω Parameter	ϒ N Symbol	⅄ ⁝ ⍑ ϯ Test Conditions	ѡ ṇ Ö Min	Ɛ ʒ Ö Typ	ѡ ᶻ Ö Max	D Ꮒ 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				
ansitionT 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

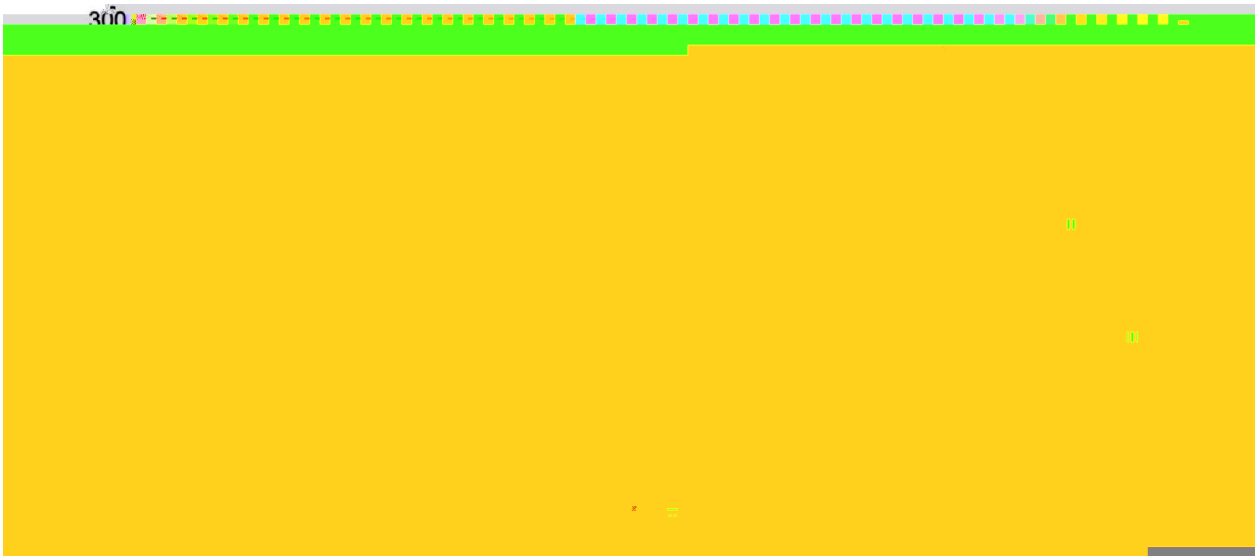


/ Marking Instructions



͡ ˝ χ	
EU χ	ѭ ϗ ͷ Ђ
E43<7 χ	ѭ ϳ ᴺ Ђ
P=	ѭ k ᴵᴴ ‘ ⁶ Ђ
---- χ	ѭ ᵻ ᶠ ή ᴺ Ђ ᵻ ₡ ᵻ ᶠ ή ᴺ Ψ ϙ
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)



ب ˝ χ

1 Ĺ ♬ □ ỷ 25 Ḱ 150 ɬ ı ˋH ڑ 60 Ḱ 90sec;

2 Š Ө □ ỷ 255 ° 5 ɬ ı ˋH ڑ ˋY ﾊ ᚙ 5 ° 0.5sec;

3 ì ˙ ϒ ˛ ɔ ๛ ỷ ᚙ 2 Ḱ 10 ɬ /sec.

Note:

1.Preheating:25~150 ɬ , Time:60~90sec.

2.Peak Temp.:255 ° 5 ɬ , Duration:5 ° 0.5sec.

3. Cooling Speed: 2~10 ɬ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỷ χ 270 ° 5 ɬ ˋH ڑ χ 10 ° 1 sec. Temp.:270±5 Time:10±1 sec

/ Packaging SPEC.

ˈ Ω ţ ϒ Ь / BULK

Package Type	Units					Dimension		(unit mm^3)

˛ ϒ Ь / TUBE

Package Type	Units					Dimension		(unit mm^3)

/ Notices