

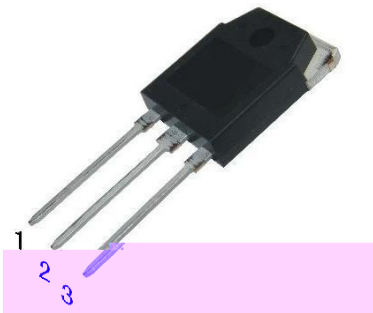
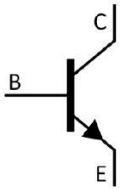
Rev.E Sep.-2016

TO-3P NPN Silicon NPN transistor in a TO-3P Plastic Package.

200W MJW21193

Recommend for 200W high fidelity audio frequency amplifier output stage, Complementary to MJE21193.

Power amplifier applications.



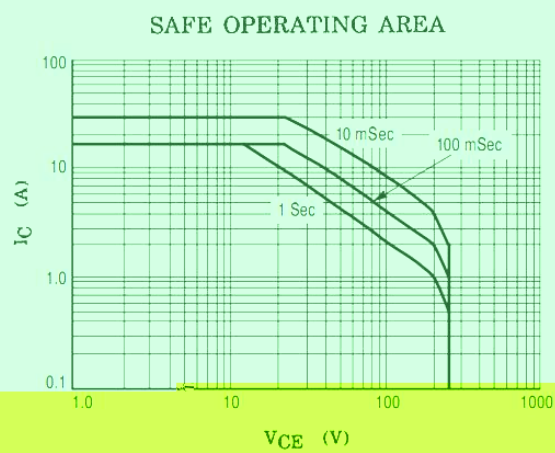
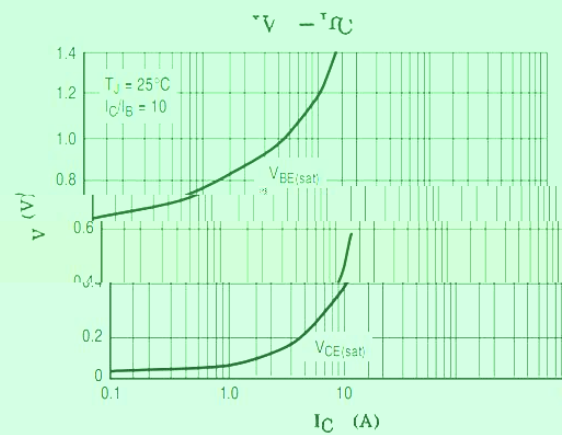
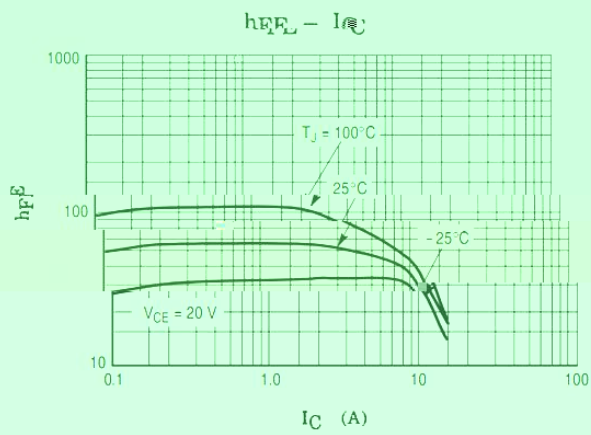
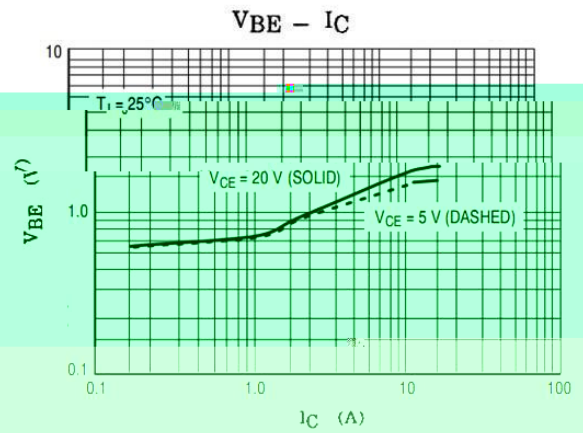
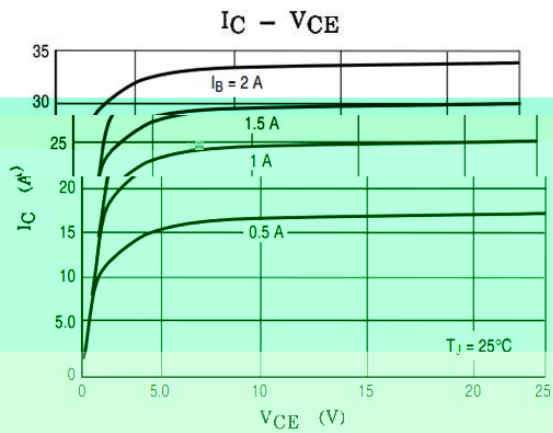
PIN1 Base PIN 2 Collector PIN 3 Emitter

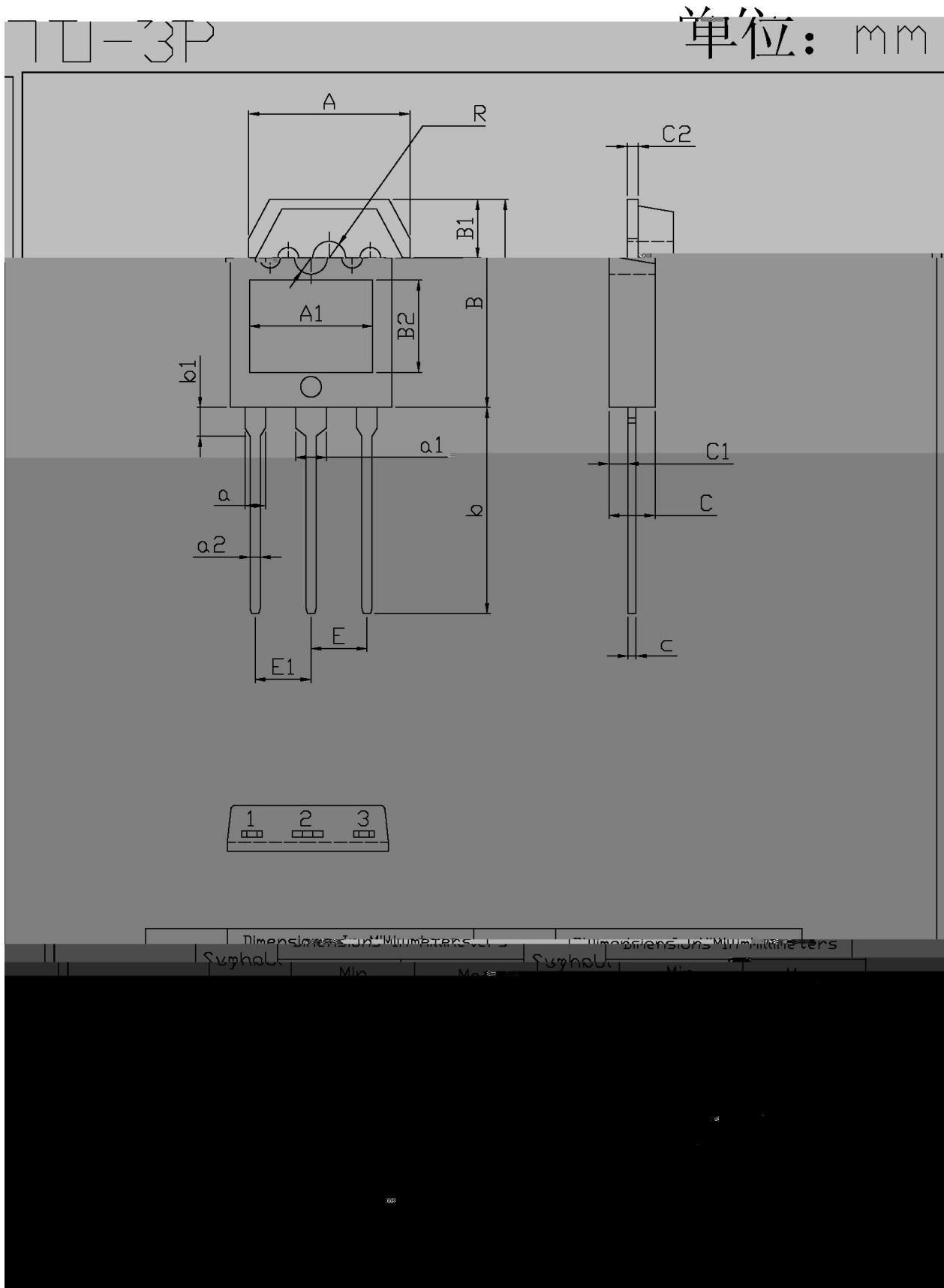
See Marking Instructions.

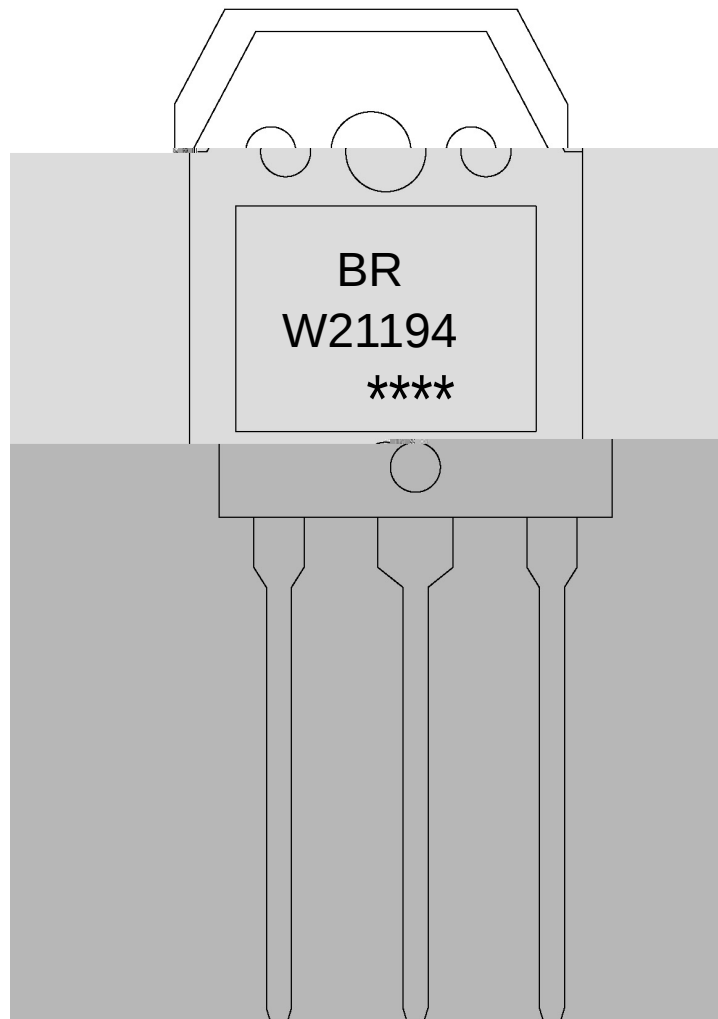
Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	400	V
Collector to Emitter Voltage	V_{CEO}	250	V
Emitter to Base Voltage	V_{EBO}	5	V
Collector Current - Continuous	I_C	16	A
Peak Collector Current	I_{CP}	30	A
Base Current	I_B	5	A
Collector Power Dissipation	$P_C(TC=25^\circ C)$	200	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 ~ 150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Base Breakdown Voltage	V_{CBO}	$I_C=100mA$ $I_B=0$	250			V
Collector Cut-Off Current	I_{CEO}	$V_{CE}=200V$ $I_E=0$			100	A
Collector Cut-Off Current	I_{CBO}	$V_{CB}=250V$ $I_E=0$			100	A
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=5.0V$ $I_C=0$			100	A
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5.0V$ $I_C=8.0A$	10		80	
	$h_{FE(2)}$	$V_{CE}=5.0V$ $I_C=16A$	8			
Collector to Emitter Saturation Voltage	$V_{CE(sat)(1)}$	$I_C=8.0A$ $I_B=0.8A$			1.4	V
	$V_{CE(sat)(2)}$	$I_C=16A$ $I_B=3.2A$			4	V
Base to Emitter Voltage	V_{BE}	$V_{CE}=5.0V$ $I_C=8.0A$			2.2	V
Transition Frequency	f_T	$V_{CE}=10V$ $I_C=1.0A$ $f=1.0MHz$	4			MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V$ $I_E=0$ $f=1.0MHz$			500	pF

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BR:

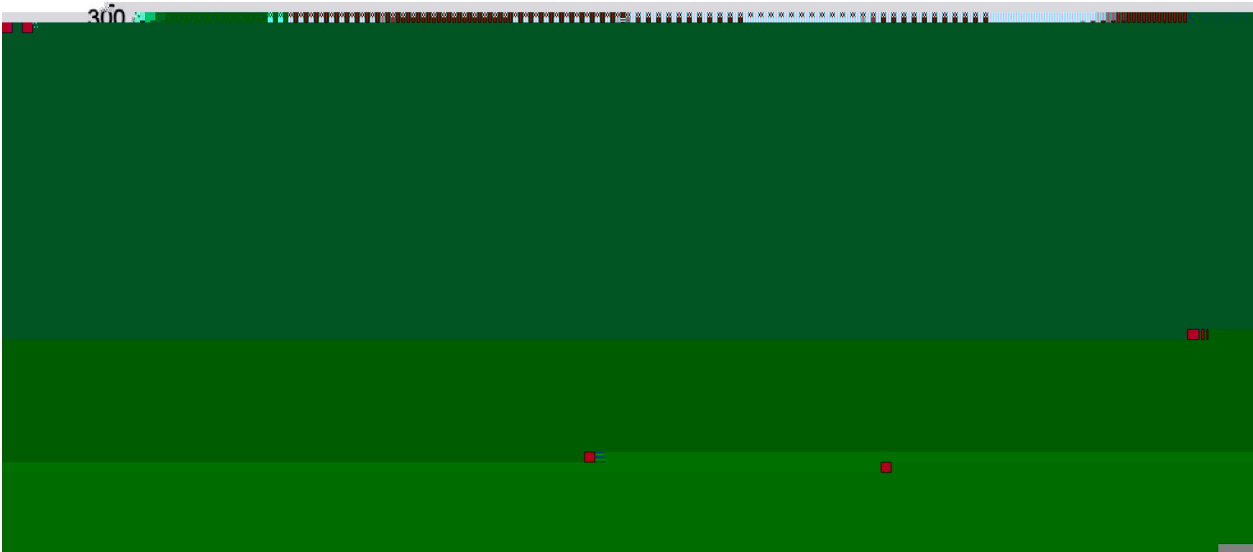
W21194

Note:

BR: Company Code.

W21194: Product Type.

****: Lot No. Code, code change with Lot No.



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.

270±5

10±1 sec.

Temp.:270±5

Time:10±1 sec

/ TUBE

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Tube 只/套管	Tubes/Inner Box 套管/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Tube 套管	Inner Box 盒	Outer Box 箱
TO-3P	30	15	450	5	2250	497.5×46×8	555×164×50	575×290×180