

/ Descriptions

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

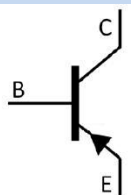
/ Features

Recommend for 70W high fidelity audio frequency amplifier output stage, Complementary to 2SC5198.

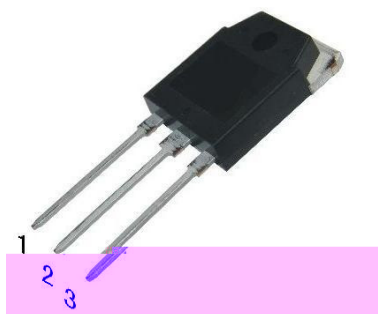
/ Applications

Power amplifier applications.

/ Equivalent Circuit



/ Pinning



PIN1 Base PIN 2 Collector PIN 3 Emitter

/ h_{FE} Classifications & Marking

h_{FE} Classifications Symbol	R	O
h_{FE} Range	55~110	80~160

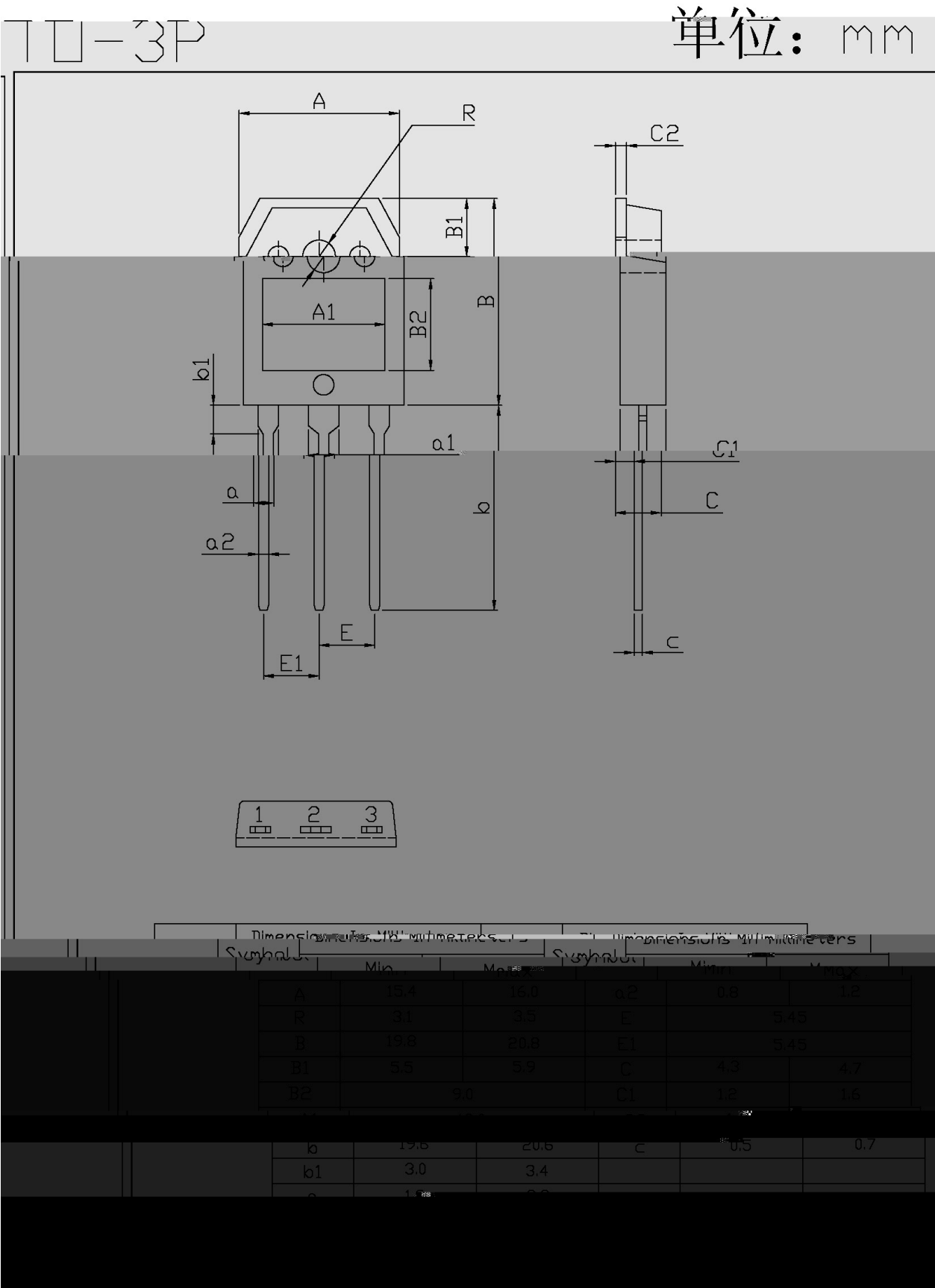
/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Collector to Base Voltage	V_{CBO}	-140	V
Collector to Emitter Voltage	V_{CEO}	-140	V
Emitter to Base Voltage	V_{EBO}	-5.0	V
Collector Current - Continuous	I_C	-10	A
Collector Current – Continuous(Pulse)	I_{CP}	-20	A
Base Current	I_B	-1.0	A
Collector Power Dissipation	$P_{C(TC=25)}$	100	W
Junction Temperature	T_j	150	
Storage Temperature Range	T_{stg}	-55 150	

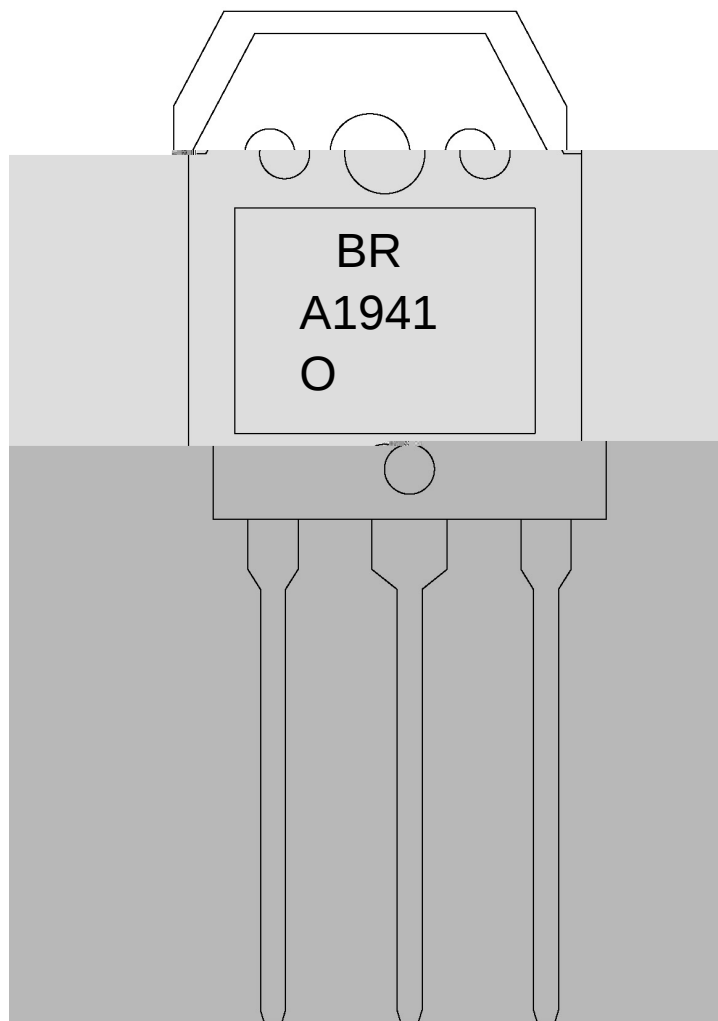
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector to Emitter Breakdown Voltage	V_{CEO}	$I_C=-50mA$ $I_B=0$	-140			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-140V$ $I_E=0$			-5.0	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-5.0V$ $I_C=0$			-5.0	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-5.0V$ $I_C=-1.0A$	55		160	
	$h_{FE(2)}$	$V_{CE}=-5.0V$ $I_C=-5.0A$	35	83		
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-7.0A$ $I_B=-0.7A$		-0.8	-2.0	V
Base to Emitter Saturation Voltage	V_{BE}	$V_{CE}=-5.0V$ $I_C=-5.0A$		-1.0	-1.5	V
Transition Frequency	f_T	$V_{CE}=-5.0V$ $I_C=-1.0A$		30		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V$ $I_E=0$ $f=1.0MHz$		320		pF

/ Package Dimensions



/ Marking Instructions



h_{FE}

Note:

BR: Company Code.

A1941: Product Type.

O: h_{FE} Classifications Symbol.

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

