

2SA1941

用途

- 应用于功率放大器

产品特性

- 高集电极电压: $V_{CEO}=140V$ (min)
- 与 2SC5198 互补
- 推荐用于 60-70W 音响频率放大器的输出电路
- 环保 (RoHS) 产品

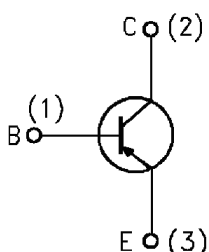
APPLICATIONS

- Power Amplifier Applications

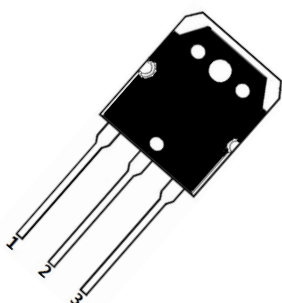
FEATURES

- High collector voltage: $V_{CEO}=140V$ (min)
- Complementary to 2SC5198
- Recommended for 60-70W audio frequency amplifier output
- RoHS product

封装 Package



TO-3PB



1. 基极 BASE
2. 集电极 (热沉)
COLLECTOR (HEAT SINK)
3. 发射极 EMITTER

绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^\circ C$ unless otherwise noted)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压	Collector- Base Voltage	V_{CBO}	-160 V
集电极—发射极直流电压	Collector- Emitter Voltage	V_{CEO}	-140 V
发射极—基极直流电压	Emitter-Base Voltage	V_{EBO}	-5 V
最大集电极电流	Collector Current	I_C	-12 A
最大基极电流	Base Current	I_B	-1.5 A
最大集电极耗散功率	Collector Dissipation($T_c=25^\circ C$)	P_C	100 W
最高结温	Junction Temperature	T_j	150 $^\circ C$
贮存温度	Storage Temperature	T_{stg}	-55~150 $^\circ C$

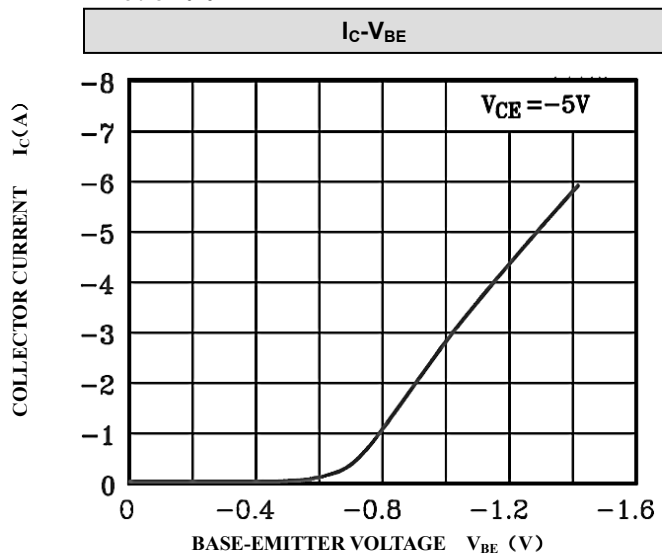
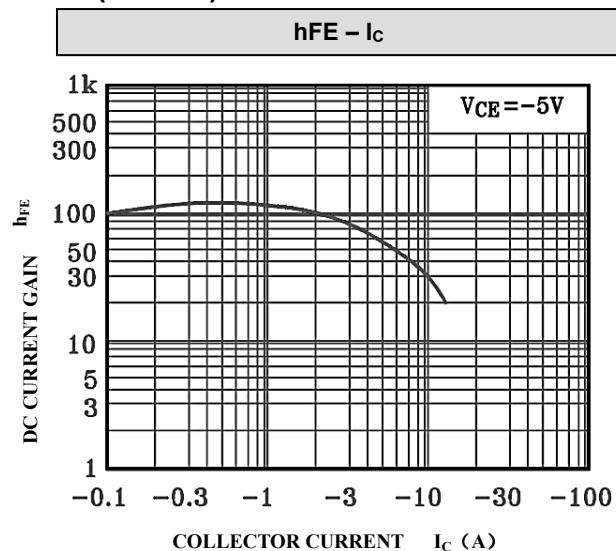
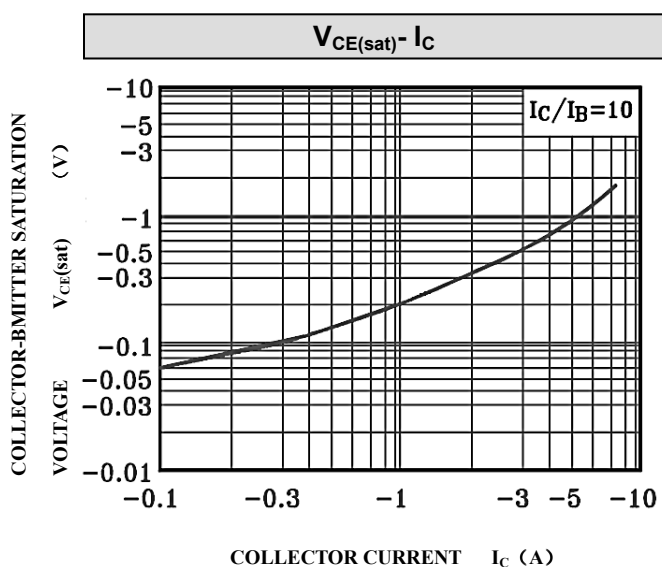
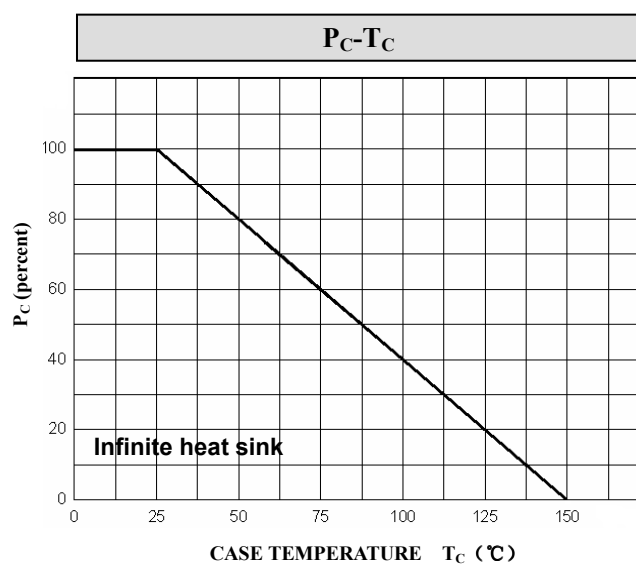
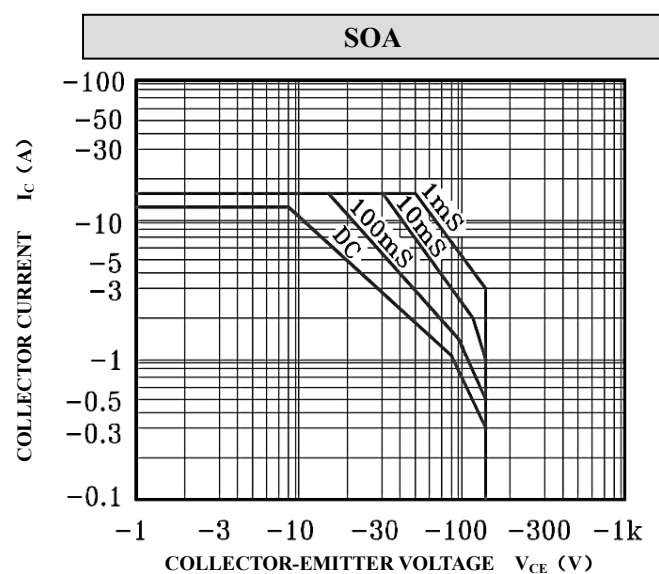
电特性 ELECTRICAL CHARACTERISTIC

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 Unit
$V_{(BR)CEO}$	$I_C=-50mA, I_B=0$	-140	-	-	V
I_{CBO}	$V_{CB}=-160V, I_E=0$	-	-	-10.0	μA
I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-10.0	μA
hFE	$V_{CE}=-5V, I_C=-1.0A$	80	-	160	-
$V_{CE(sat)}$	$I_C=-6.0A, I_B=-0.6A$	-	-	-2.0	V
$V_{BE(ON)}$	$V_{CE}=-5V, I_C=-5.0A$	-	-	-1.5	V
f_T	$V_{CE}=-5V, I_C=-1.0A$	-	12	-	MHz
C_{Ob}	$V_{CE}=10V, I_E=0, f=1MHz$	-	170	-	pF

热特性 THERMAL CHARACTERISTIC

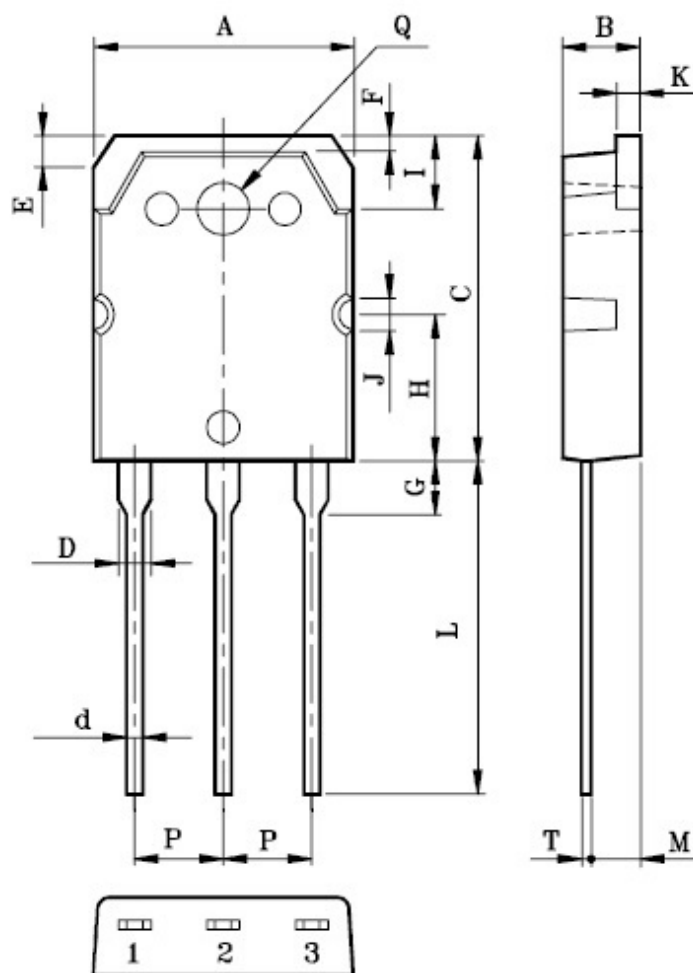
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case TO-3PB	$R_{th(j-c)}$	-	1.47	$^{\circ}C/W$

特征曲线 ELECTRICAL CHARACTERISTICS (curves)



外形尺寸 PACKAGE MECHANICAL DATA

TO-3PB



DIM	MILLIMETERS
A	15.9 MAX
B	4.8 MAX
C	20.0±0.3
D	2.0±0.3
d	1.0+0.3/-0.25
E	2.0
F	1.0
G	3.3 MAX
H	9.0
I	4.5
J	2.0
K	1.8 MAX
L	20.5±0.5
M	2.8
P	5.45±0.2
Q	∅3.2±0.2
T	0.6+0.3/-0.1

1. BASE
2. COLLECTOR
3. EMITTER