

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 70-80W 高保真音响频率放大器的输出电路
- 环保 (RoHS) 产品

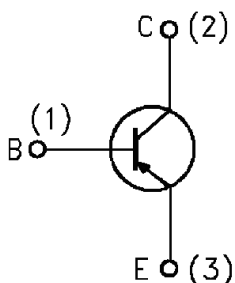
APPLICATIONS

- Power Amplifier Applications

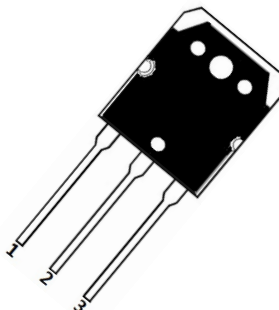
FEATURES

- High collector voltage: $V_{CEO} = 140V$ (min)
- Complementary to 2SC5198
- Recommended for 70-80W high-fidelity audio frequency amplifier output
- RoHS product

封装 Package



TO-247



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}	-140	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	-15	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(Tc=25℃)	P _C	130	W
最高结温	Junction Temperature	T _j	150	℃
贮存温度	Storage Temperature	T _{stg}	-55~150	℃

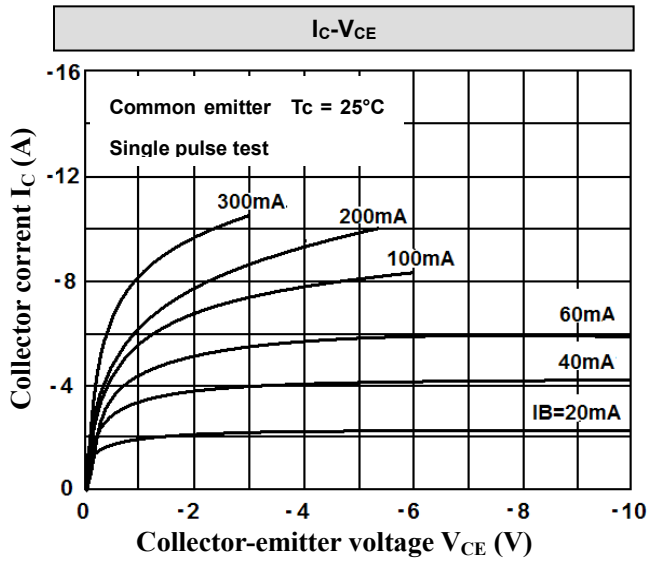
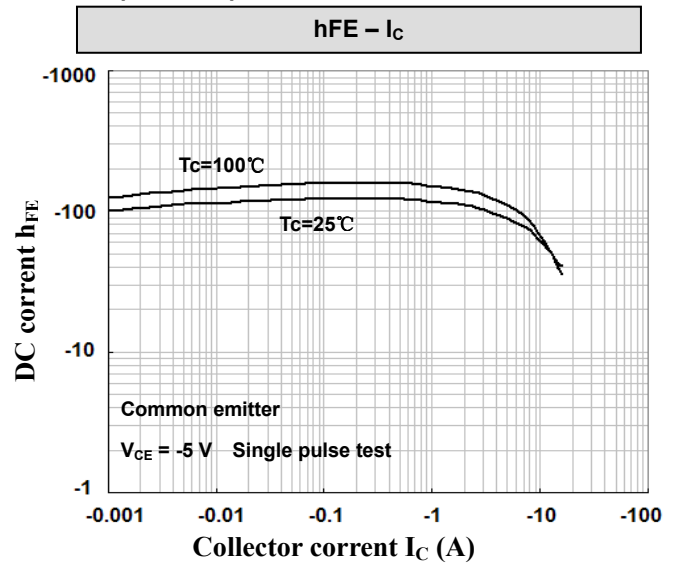
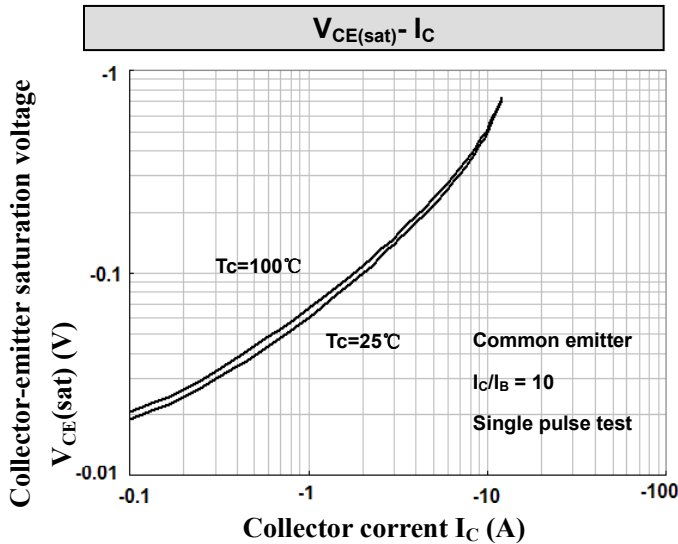
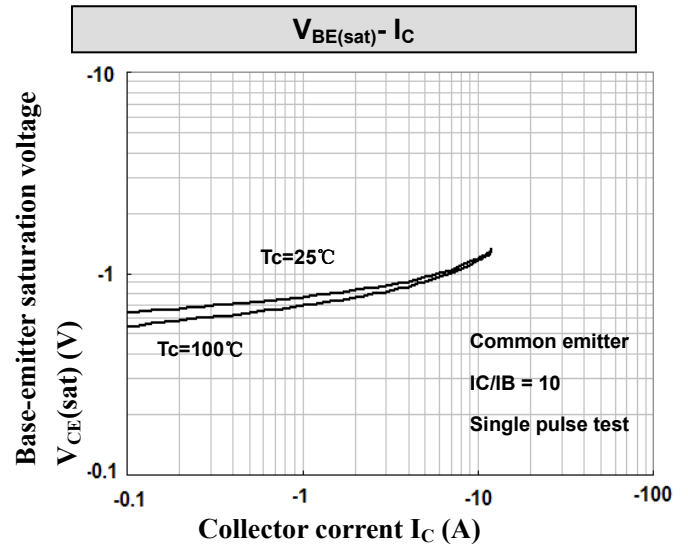
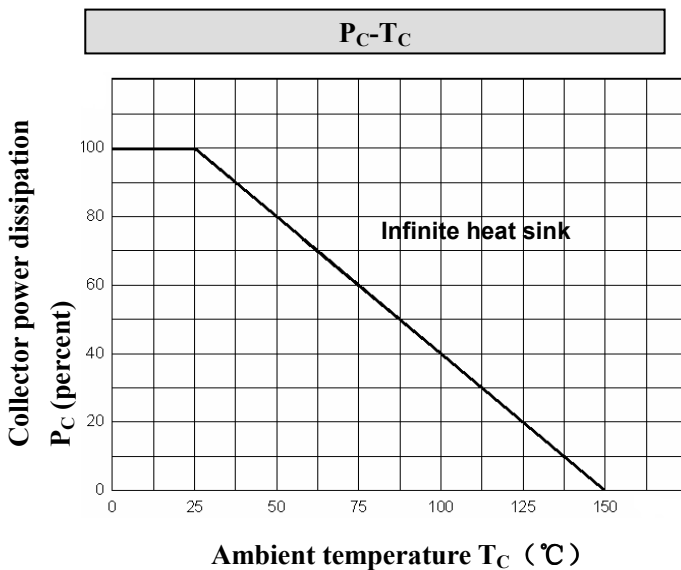
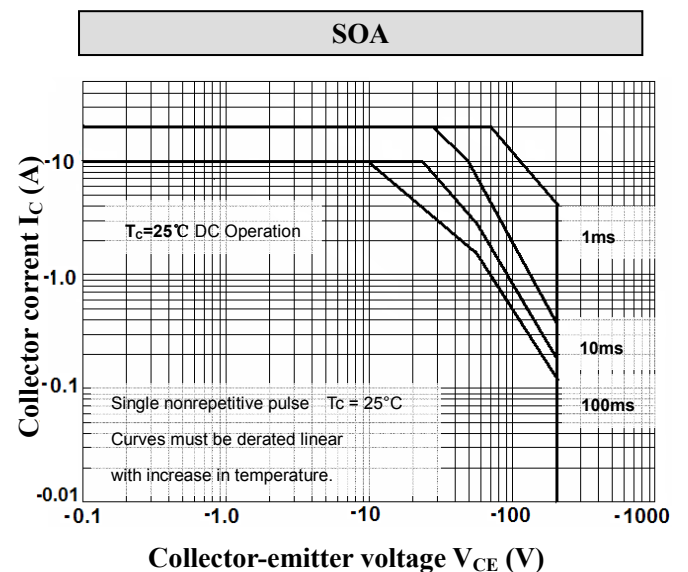
电特性 ELECTRICAL CHARACTERISTIC

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
I_{CBO}	$V_{CB}=-140V, I_E=0$	-	-	-5.0	μA
I_{EBO}	$V_{EB}=-5V, I_C=0$	-	-	-5.0	mA
$V_{(BR)CEO}$	$I_C=-50mA, I_B=0$	-140	-	-	V
hFE	$V_{CE}=-5V, I_C=1.0A$	80	-	160	-
	$V_{CE}=-5V, I_C=-5.0A$	35	-	-	-
$V_{CE(sat)}$	$I_C=-7.0A, I_B=-0.7A$	-	-	-2.0	V
V_{BE}	$V_{CE}=-5V, I_C=-5.0A$	-	-	-1.5	V
f_T	$V_{CE}=-5V, I_C=-1.0A$	-	30	-	MHz
C_{Ob}	$V_{CE}=-10V, I_E=0, f=1MHz$	-	320	-	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	$R_{th(j-c)}$	-	0.962	$^{\circ}C/W$

特征曲线 ELECTRICAL CHARACTERISTICS (curves)



外形尺寸 PACKAGE MECHANICAL DATA
TO-3PB

