



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 70W 高保真音响频率放大器输出电路
- 环保 (RoHS) 产品

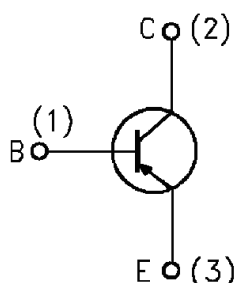
APPLICATIONS

- Power Amplifier Applications

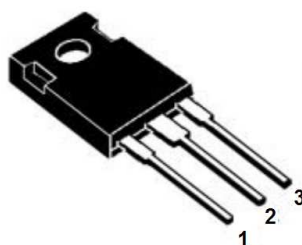
FEATURES

- High collector voltage: $V_{CEO} = 140V$ (min)
- Complementary to 2SC5198
- Recommended for 70-W 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

订货信息 ORDER MESSAGE

订货型号 Order codes	印记 Marking	无卤素 Halogen Free	封装 Package	包装 Packaging	器件重量 Weight
2SA1941-O-W-N-B	2SA1941	否 NO	TO-247	条管 Tube	6.03g(typ)

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($T_c = 25^\circ C$)	P_C	130	W
最高结温 Junction Temperature	T_j	150	$^\circ C$
贮存温度 Storage Temperature	T_{stg}	-55~150	$^\circ C$





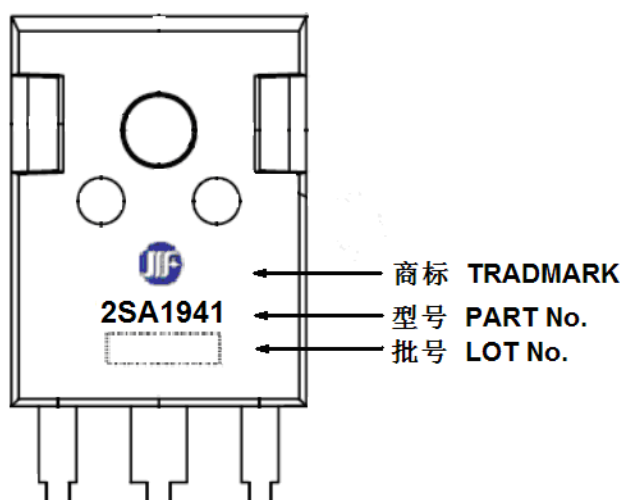
电特性 ELECTRICAL CHARACTERISTIC

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
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

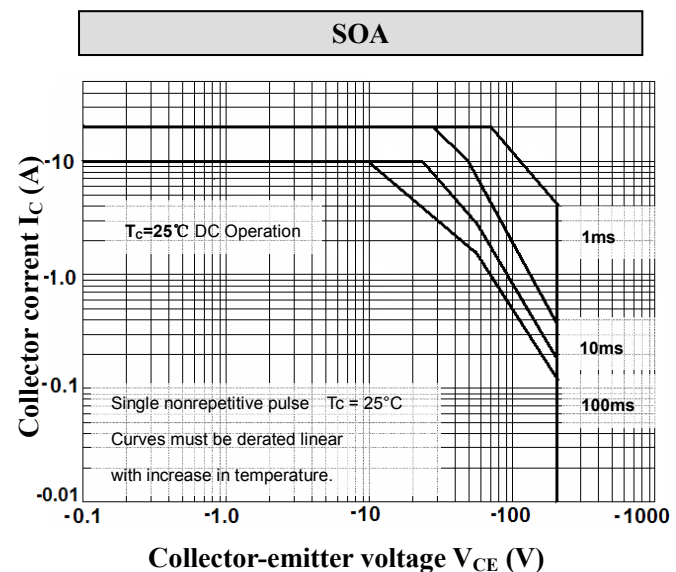
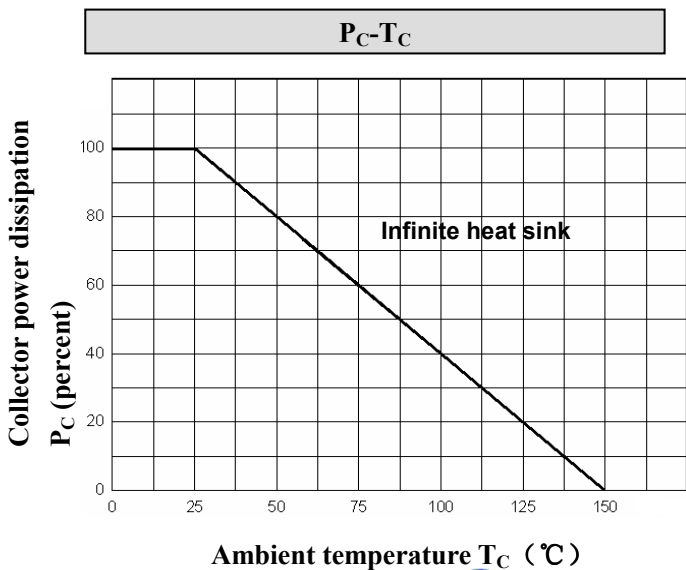
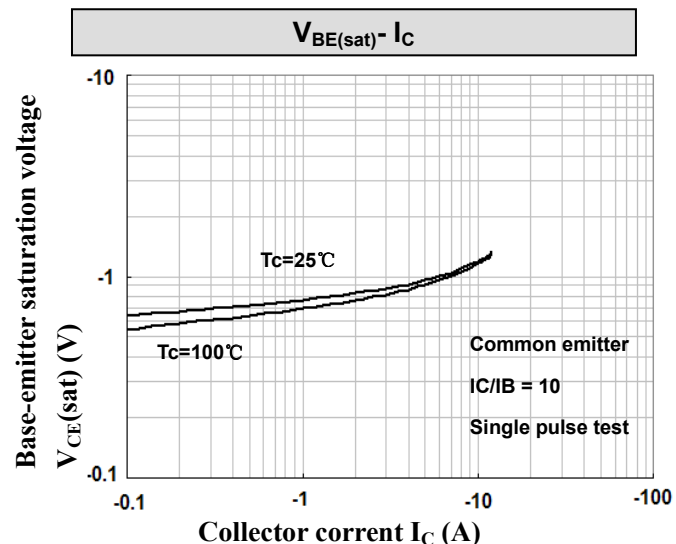
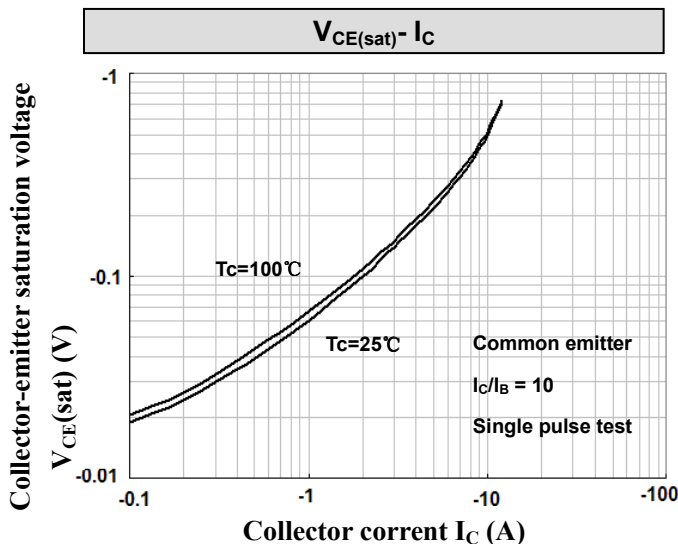
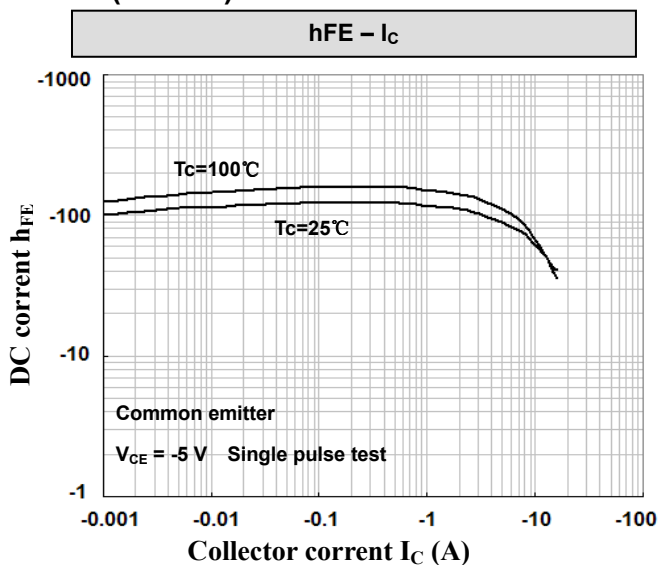
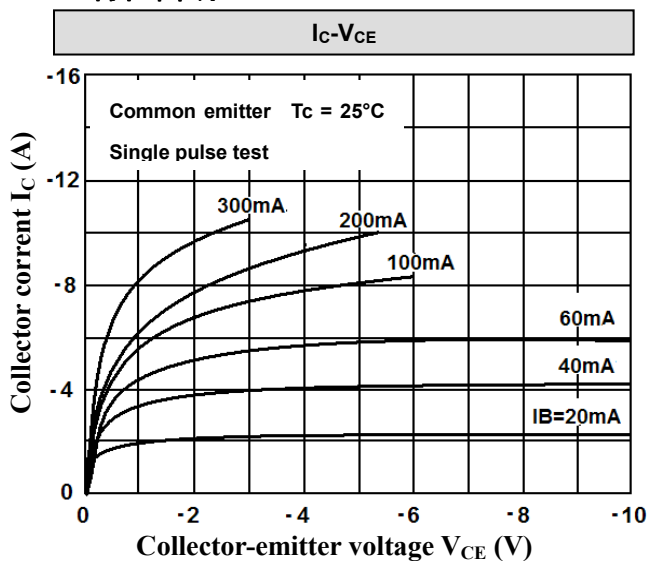
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case TO-247	$R_{th(j-c)}$	-	0.962	$^{\circ}C/W$

印记说明 MARKING





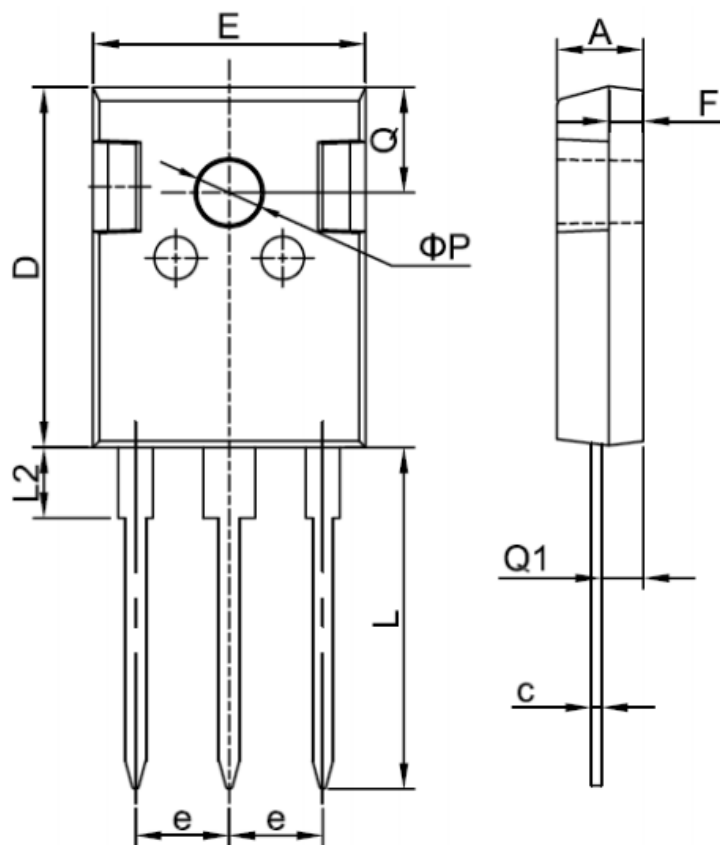
特征曲线 ELECTRICAL CHARACTERISTICS (curves)





外形尺寸 PACKAGE MECHANICAL DATA
TO-3P(LH)

单位 Unit : mm



符号	尺寸 (mm)
A	4.90-5.10
B	2.95-3.35
B1	1.95-2.35
b	1.15-1.35
c	0.50-0.70
D	20.9-21.1
E	15.7-15.9
e	5.34-5.54
F	1.90-2.10
L	19.4-20.4
L2	4.03-4.23
P	3.50-3.70
Q	6.00-6.40
Q1	2.30-2.50



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4. 本说明书如有版本变更不另外告知

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附录 (Appendix) : 修订记录 (Revision History)

日期 Date	旧版本 Last Rev.	新版本 New Rev.	修订内容 Description of Changes
2013-11-8		201311C	

