

TTC5200

用途

- 应用于功率放大器

产品特性

- 高集电极电压: $V_{CEO}=230V$ (min)
- 与 TTA1943 互补
- 推荐用于 100W 高保真音响频率放大器输出电路
- 环保 (RoHS) 产品

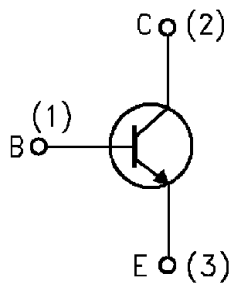
APPLICATIONS

- Power Amplifier Applications

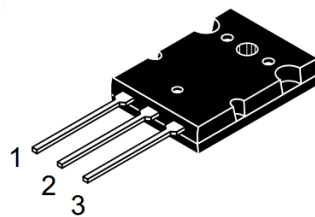
FEATURES

- High collector voltage: $V_{CEO}=230V$ (min)
- Complementary to TTA1943
- Recommended for 100-W high-fidelity audio frequency amplifier output
- RoHS product

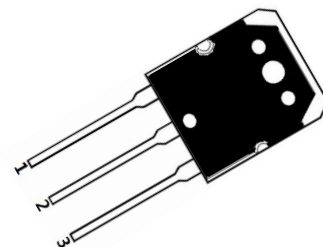
封装 Package



TO-3PL



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}	230	V
集电极—发射极直流电压 Collector- Emitter Voltage	V_{CEO}	230	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 TO-3PB Collector Dissipation($T_c=25^{\circ}C$)	P_C	150	W
最大集电极耗散功率 TO-3PL Collector Dissipation($T_c=25^{\circ}C$)	P_C	180	W
最高结温 Junction Temperature	T_j	150	$^{\circ}C$
贮存温度 Storage Temperature	T_{stg}	-55~150	$^{\circ}C$

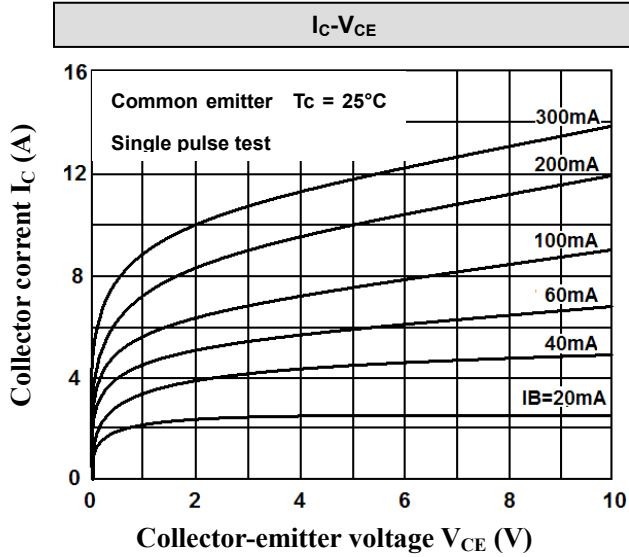
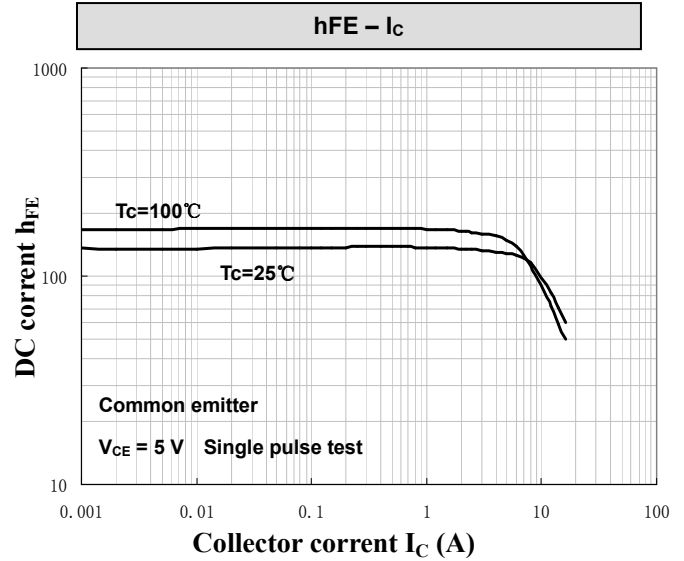
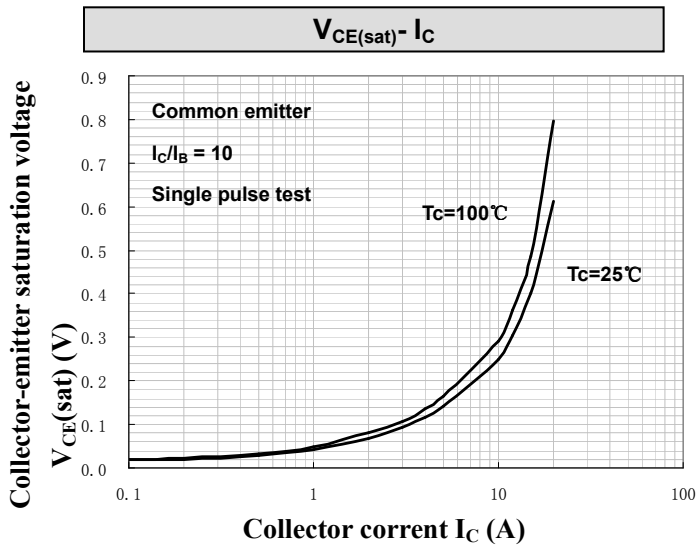
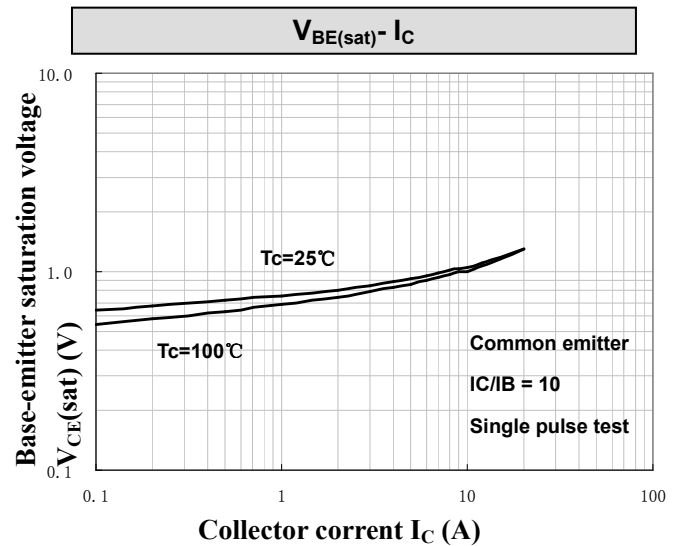
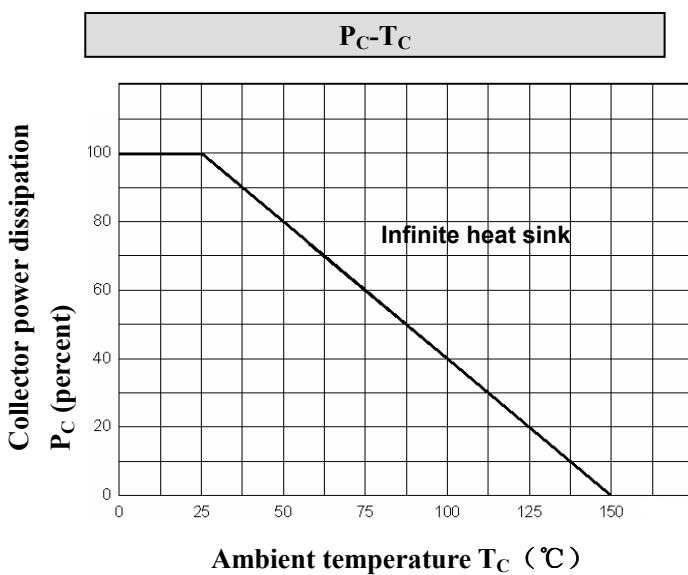
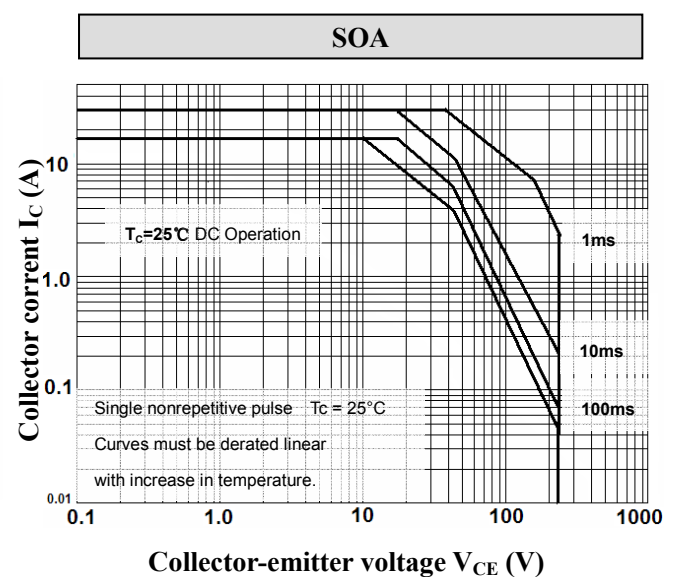
电特性 ELECTRICAL CHARACTERISTIC

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}	$V_{CB}=230V, I_E=0$	-	-	5.0	μA
I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	mA
$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	230	-	-	V
hFE	$V_{CE}=5V, I_C=1.0A$	80	-	160	-
	$V_{CE}=5V, I_C=7.0A$	35	-	-	-
$V_{CE(sat)}$	$I_C=8.0A, I_B=0.8A$	-	-	3.0	V
V_{BE}	$V_{CE}=5V, I_C=7.0A$	-	-	1.5	V
f _r	$V_{CE}=5V, I_C=1.0A$	-	30	-	MHz
C_{Ob}	$V_{CE}=10V, I_E=0, f=1MHz$	-	145	-	pF

热特性 THERMAL CHARACTERISTIC

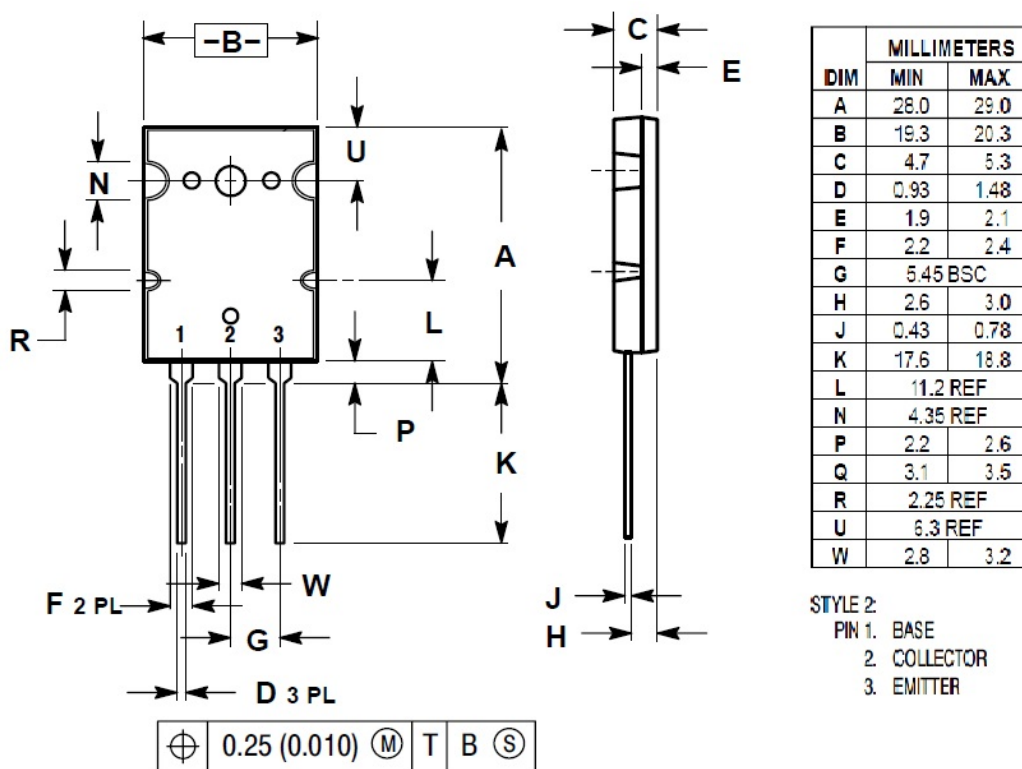
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case TO-3PB	$R_{th(j-c)}$	-	0.962	$^{\circ}C/W$
结到管壳的热阻 Thermal Resistance Junction Case TO-3PL	$R_{th(j-c)}$	-	0.694	$^{\circ}C/W$

特征曲线 ELECTRICAL CHARACTERISTICS (curves)



PACKAGE MECHANICAL DATA

TO-3PL



TO-3PB

