

MJL21194(NPN) MJL21193(PNP)

用途

- 高保真音响及其他线性应用

产品特性

- 高集电极电压: $V_{CE0}=250V$ (min)
- NPN-PNP 互补
- 宽安全工作区
- 环保 (RoHS) 产品

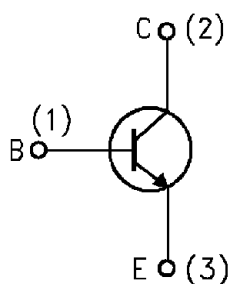
APPLICATIONS

- High fidelity audio amplifier and other linear applications

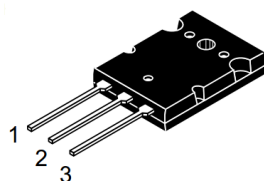
FEATURES

- High collector voltage: $V_{CE0}=250V$ (min)
- Complementary NPN-PNP
- Exceptional Safe Operating Area
- RoHS Devices

封装 Package



TO-3PL(T)



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 (Tc=25℃ 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}	400	V
集电极—发射极直流电压 Collector- Emitter Voltage	V_{CEO}	250	V
发射极—基极直流电压 Emitter-Base Voltage	V_{EBO}	5.0	V
最大集电极电流 Collector Current	I_C	16	A
最大基极电流 Base Current	I_B	5	A
耗散功率 Total Power Dissipation(Tc=25℃)	P_D	200	W
最高结温 Junction Temperature	T_j	150	℃
贮存温度 Storage Temperature	T_{stg}	-65~150	℃

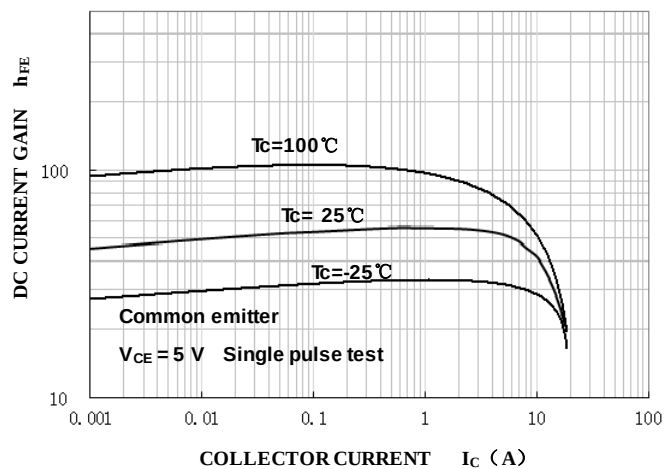
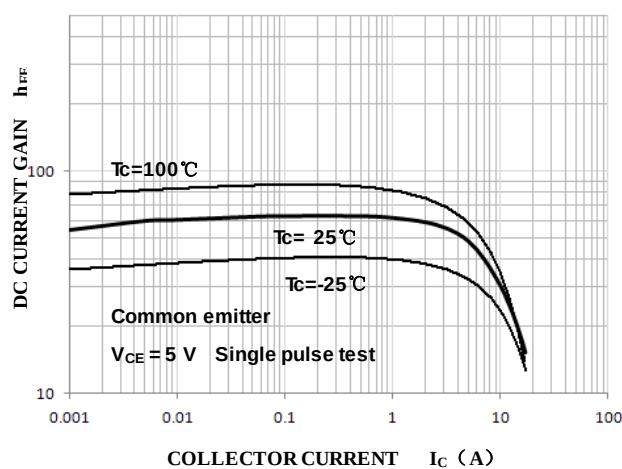
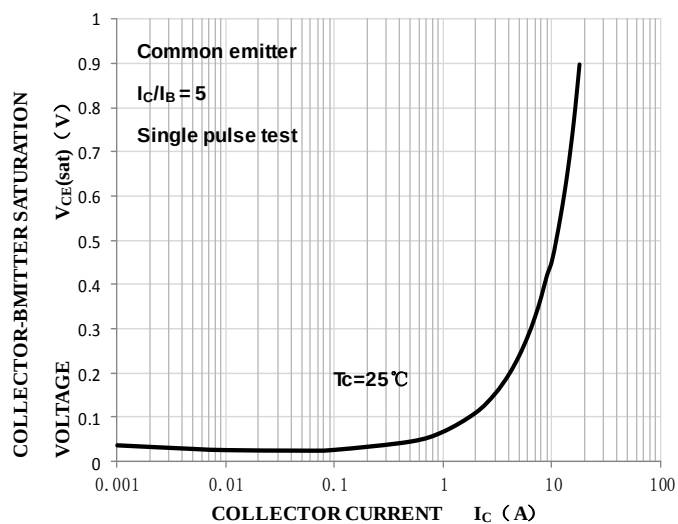
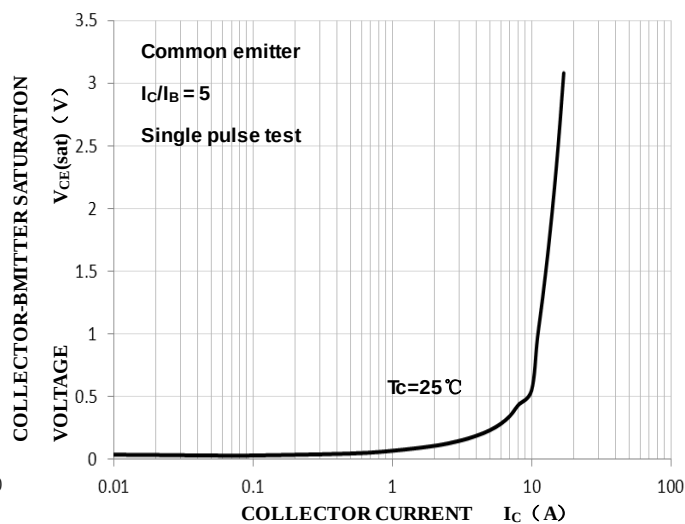
电特性 ELECTRICAL CHARACTERISTIC

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
$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	250	-	-	V
I_{CBO}	$V_{CB}=250V, I_E=0$	-	-	10.0	μA
I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	μA
hFE	$V_{CE}=5V, I_C=8A$	25	-	75	-
$V_{CE(sat)}$	$I_C=8.0A, I_B=0.8A$	-	-	1.4	V
$V_{BE(ON)}$	$V_{CE}=5.0V, I_C=8.0A$	-	-	2.2	V
f_T	$V_{CE}=5V, I_C=1.0A$	4	-	-	MHz
C_{Ob}	$V_{CE}=10V, I_E=0, f=1.0MHz$	-	-	500	pF

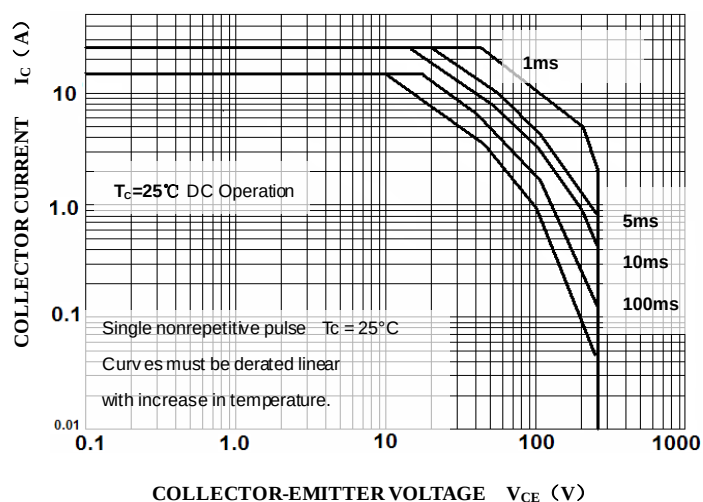
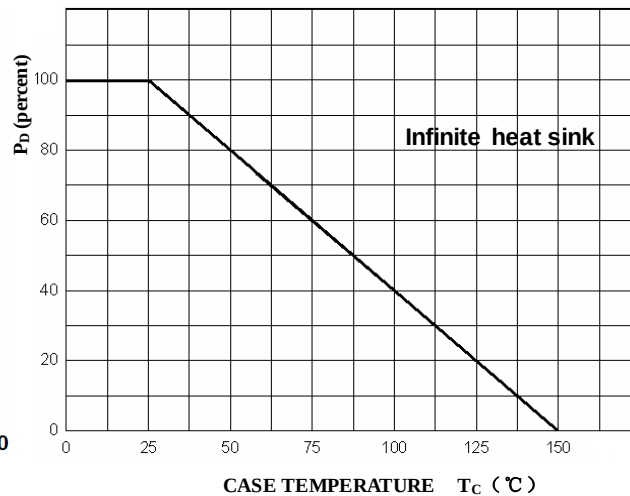
热特性 THERMAL CHARACTERISTIC

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-3PL(T)	$R_{th(j-c)}$	-	0.7	℃/W

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

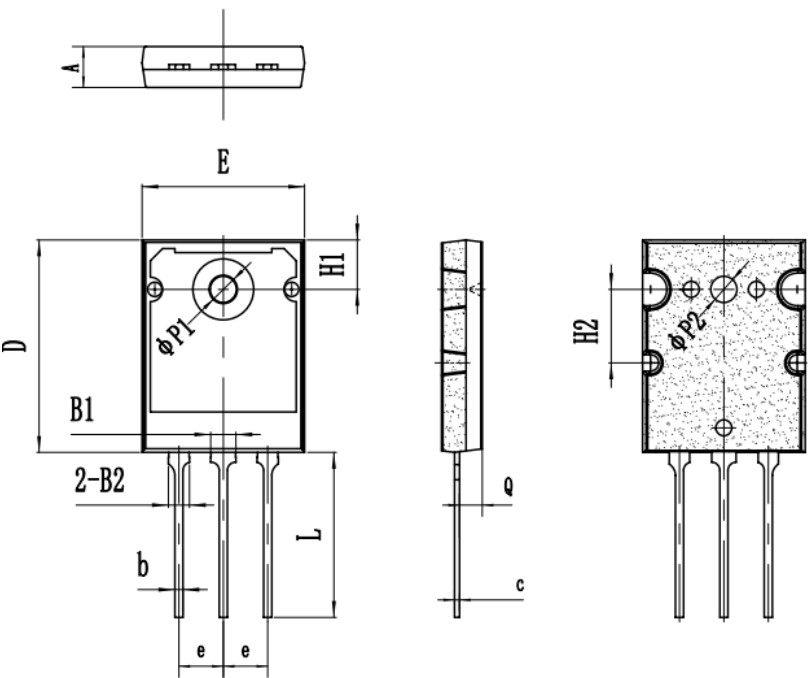
 $h_{FE} - I_C$ (MJL21194) $h_{FE} - I_C$ (MJL21193) $V_{CE(sat)} - I_C$ (MJL21194) $V_{CE(sat)} - I_C$ (MJL21193)

SOA

 $P_D - T_C$ 

外形尺寸 PACKAGE MECHANICAL DATA
TO-3PLT

单位 Unit : mm



符号	尺寸 (mm)
A	4.70-5.30
B1	2.80-3.20
B2	2.30-2.70
b	0.80-1.25
c	0.59-0.61
D	25.5-26.5
E	19.5-20.5
e	5.45(typ)
H1	6.00-6.10
H2	8.95-9.05
L	20.0-20.4
Q	2.75-2.85
P1	3.45-3.55
P2	3.20-3.30