



MJL21194 (NPN)

MJL21193 (PNP)

用途

高保真音响及其他线性应用

APPLICATIONS

High fidelity audio amplifier and other linear applications

产品特性

MJL21193与MJL21194互补

高集电极电压: $V_{CEO}=250V$ (min)

宽安全工作区

RoHS 产品

FEATURE

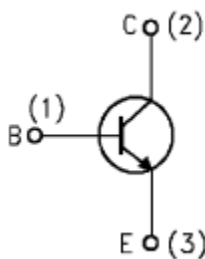
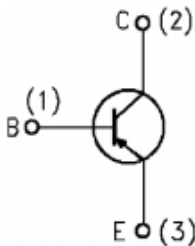
Complementary MJL21193 to MJL21194

High collector voltage $V_{CEO}=250V$ (min)

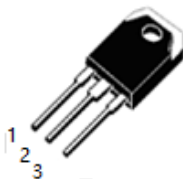
Exceptional safe operating area

RoHS product

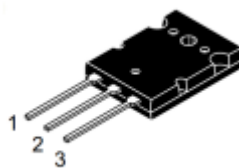
封装 Package



TO-3P



TO-3PL



- 1. 基极 BASE
- 2. 集电极 COLLECTOR
- 3. 发射极 EMITTER

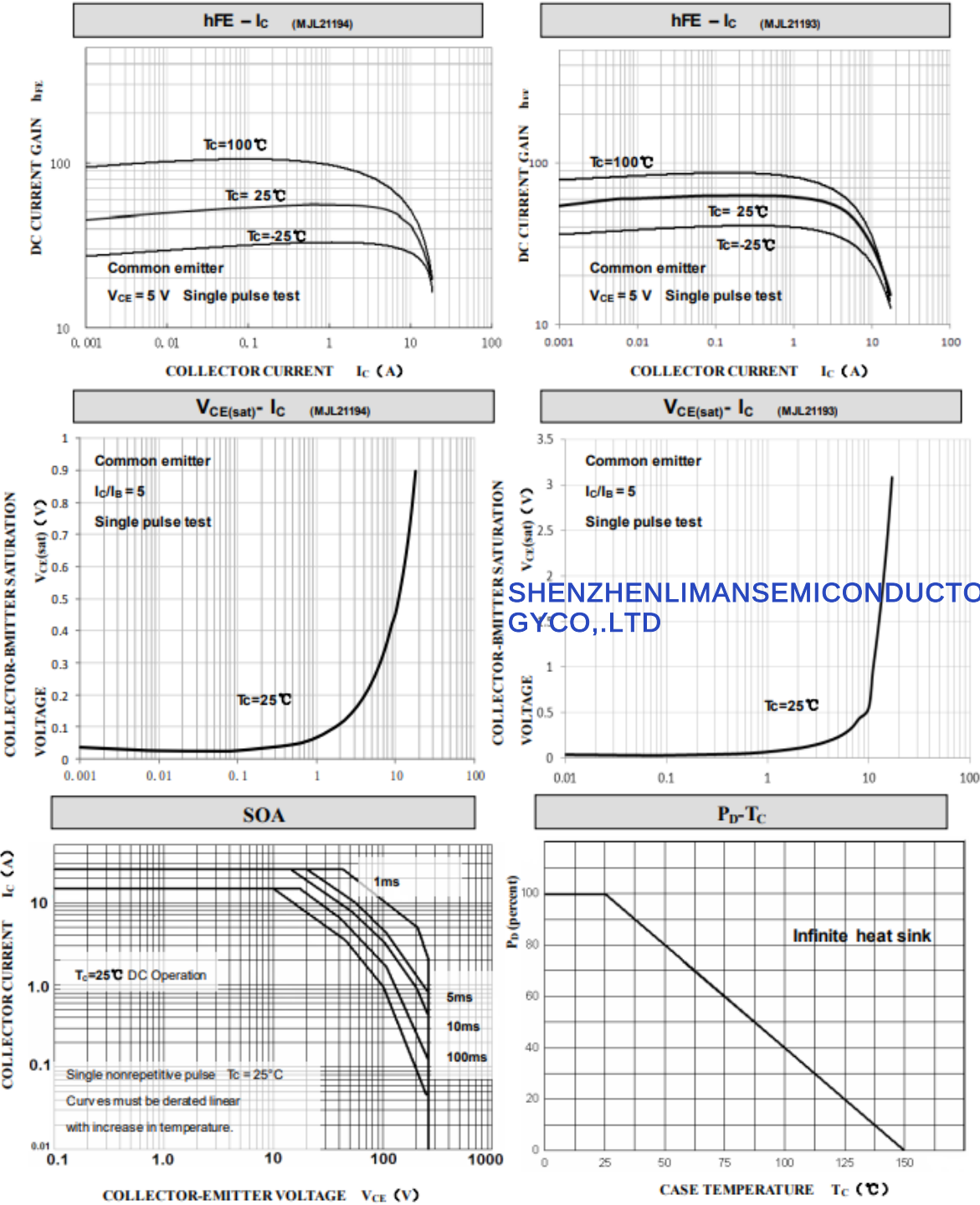
绝对最大额定值Absolute Ratings (Tc=25℃)

项目 Parameter	符号Symbol	数值Value	单位Unit
集电极—发射极直流电压 Collector-Base Voltage	V_{CBO}	400/-400	V
集电极—发射极直流电压 Collector-Emitter Voltage	V_{CEO}	250/-250	V
发射极-基极直流电压 Emitter-Base Voltage	V_{EBO}	5/-5	V
最大集电极电流 Collector Current(DC)	I_C	16/-16	A
最大基极电流 Base Current	I_B	5/-5	A
最大集电极耗散功率 Total Dissipation	P_C	200	W
最高结温 Operating Junction Temperature	T_J	+150	℃
存储温度 Storage Temperature Range	T_{STG}	-55~+150	℃

电特性 Electrical Characteristics

项 目 Parameter	测试条件 Tests conditions	最小 Min	典型 Typ	最大 Max	单位 Units
$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	250/-250	-	-	V
$V_{(BR)CBO}$	$I_C=1mA, I_B=0$	400/-400	-	-	V
V_{EBO}	$I_E=1mA, I_C=0$	5/-5	-	-	V
I_{CBO}	$V_{CBO}=350V, I_E=0$	-	-	0.2/-0.2	mA
I_{EBO}	$V_{EBO}=5V, I_C=0$	-	-	2/-2	mA
hFE	$V_{CE}=5V, I_C=8A$	25	-	75	-
V_{CESAT}	$I_C=8A, I_B=0.8mA$	-	-	1.4/-1.4	V
$V_{BE(ON)}$	$V_{CE}=5V, I_C=8A$	-	-	2.2/-2.2	V
V_{BESAT}	$I_C=3A, I_B=12mA$	-	-	2.5/-2.5	V
f_T	$V_{CE}=5V, I_C=1A$	4	-	-	MHZ
C_{ob}	$V_{CE}=10V, I_E=0A, f=1\text{ MHz}$	-	-	500	PF
$R_{th(j-c)}$	结到管壳的热阻 Thermal Resistance Junction Case	-	-	0.7	°C/W

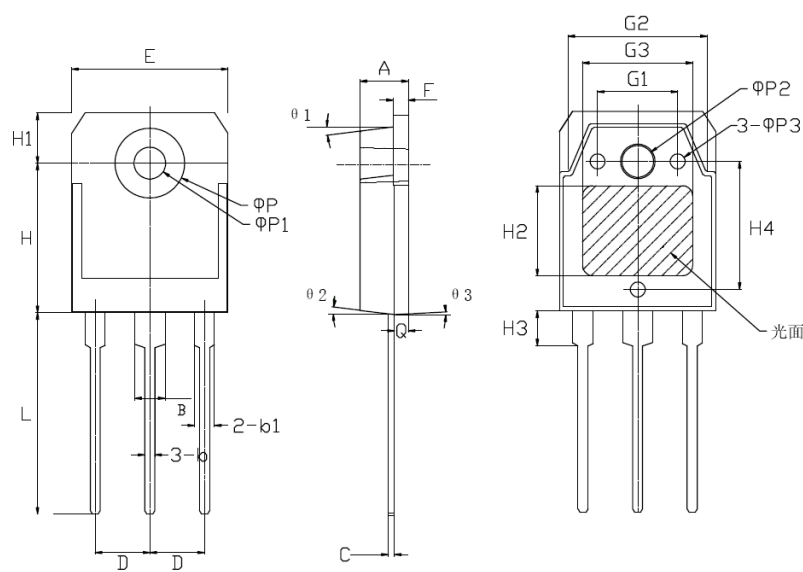
特性曲线 ELECTRICAL CHARACTERISTICS (curves)



SHENZHENLIMANSEMICONDUCTORTECHNOLOGYCO.,LTD

外形尺寸 PACKAGE MECHANICAL DATA

TO-3P



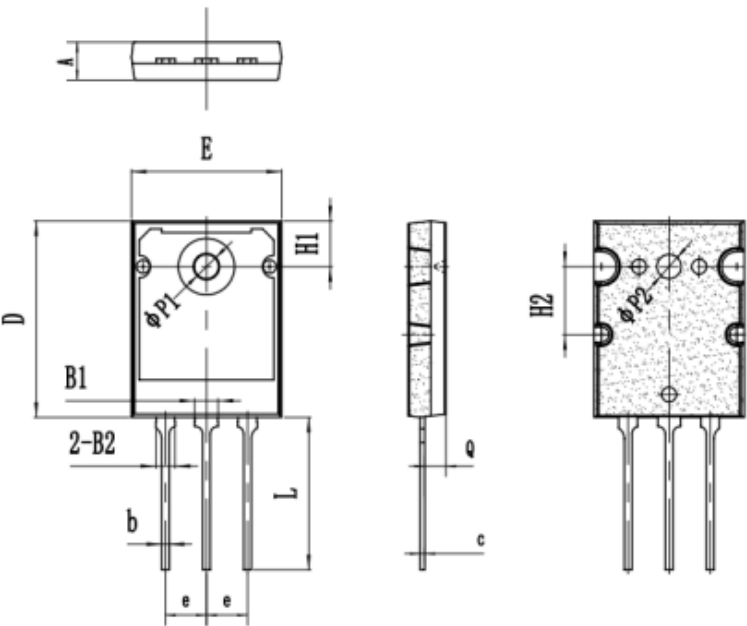
COMMON DIMENSIONS

SYMBOL	MM		
	MIN	NOM	MAX
A	4.75	4.80	4.85
B	3.00	3.10	3.20
C	0.55	0.60	0.65
D	5.35	5.45	5.55
E	15.55	15.75	15.95
F	1.40	1.50	1.60
G1	7.90	8.00	8.10
G2	13.20	13.40	13.60
G3	10.90	11.00	11.10
b	0.85	1.00	1.15
b1	1.95	2.05	2.15
L	20.00	20.15	20.30
H	14.80	14.90	15.00
H1	4.90	5.00	5.10
H2	8.90	9.00	9.10
H3	3.20	3.50	3.80
H4	12.66	12.76	12.86
φP	6.90	7.00	7.10
φP1	3.10	3.20	3.30
φP2	3.40	3.50	3.60
φP3	1.40	1.50	1.60
θ1	6°	7°	8°
θ2	6°	7°	8°
θ3	2°	3°	4°
Q	1.33	1.38	1.43

外形尺寸 PACKAGE MECHANICAL DATA

TO-3PL

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