

NJW0281G(NPN)

NJW0302G(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

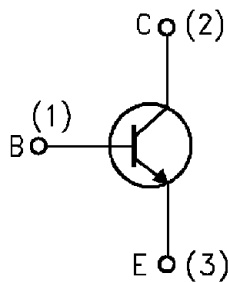
APPLICATIONS

- High fidelity audio amplifier and other linear applications

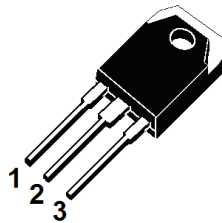
FEATURES

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

封装 Package



TO-3P



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}	250	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	15	A
最大基极电流	Base Current	I _B	1.5	A
耗散功率	Total Power Dissipation(Tc=25℃)	P _D	150	W
最高结温	Junction Temperature	T _j	150	℃
贮存温度	Storage Temperature	T _{stg}	-65~150	℃

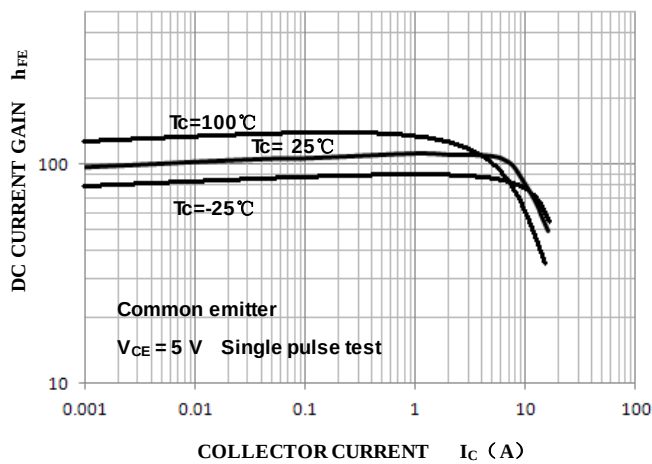
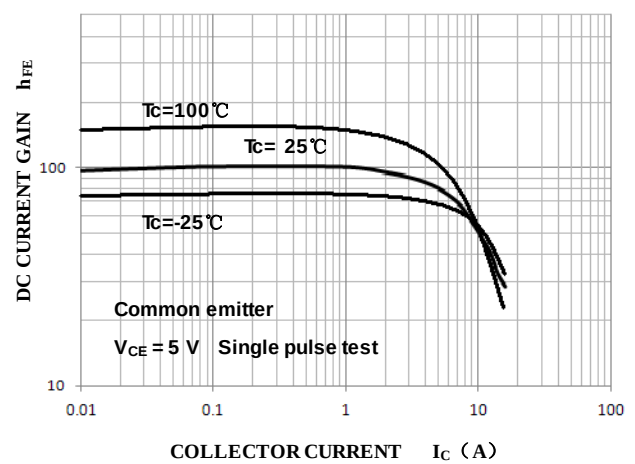
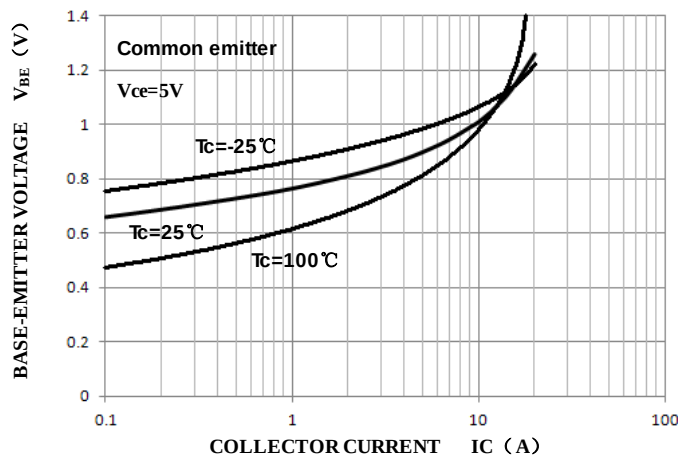
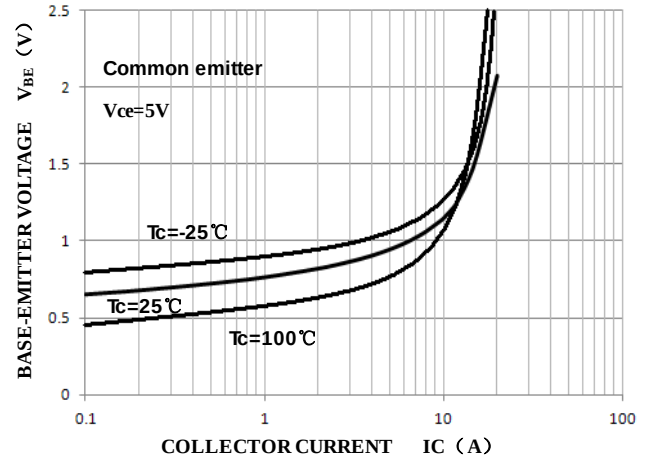
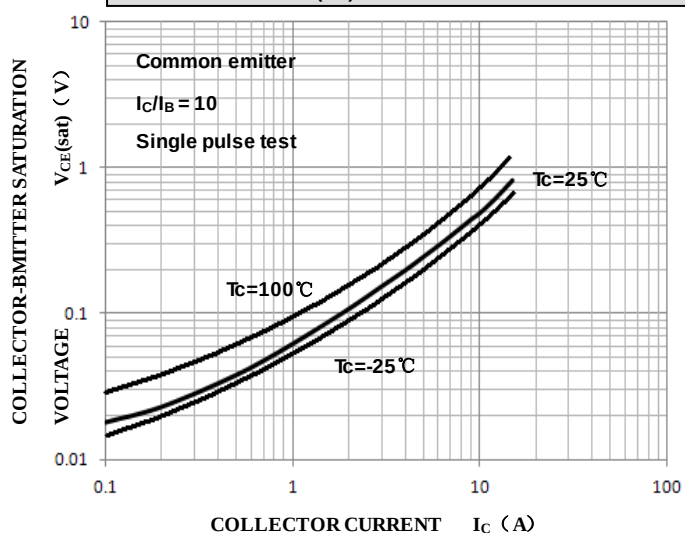
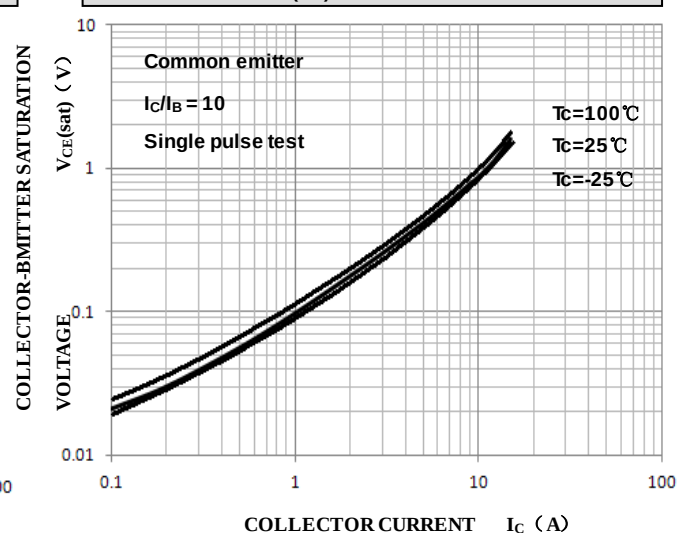
电特性 ELECTRICAL CHARACTERISTIC

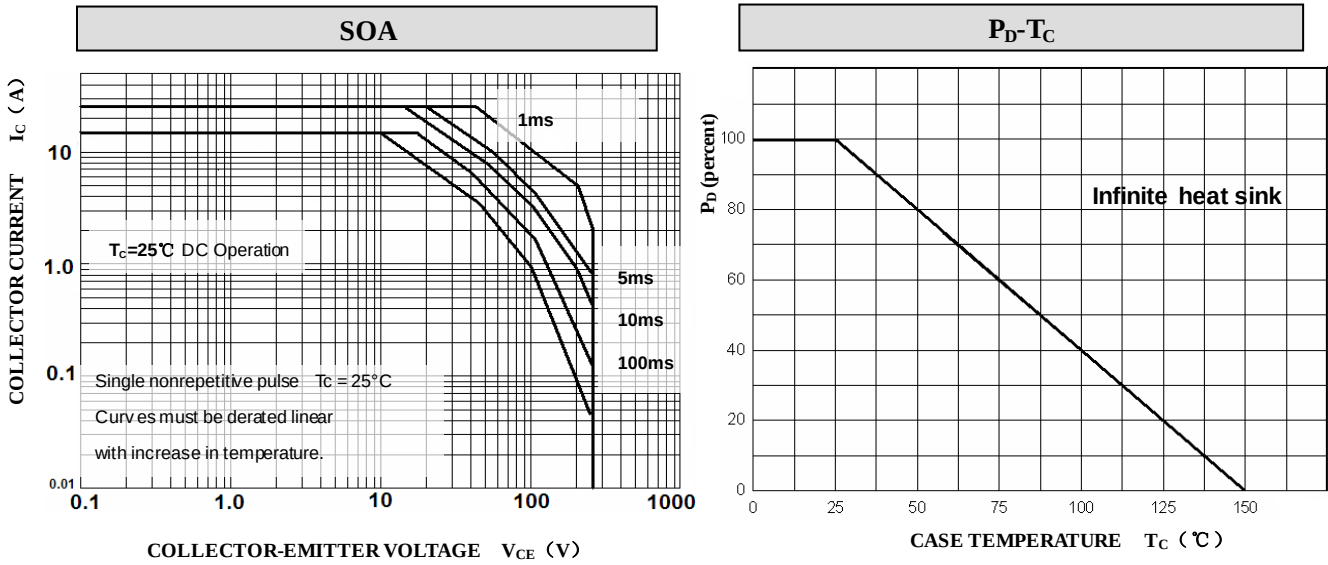
项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单位 Unit
$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	250	-	-	V
I_{CBO}	$V_{CB}=250V, I_E=0$	-	-	10.0	μA
I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	5.0	μA
hFE	$V_{CE}=5V, I_C=1.0A$	75	110	150	-
$V_{CE(sat)}$	$I_C=5.0A, I_B=0.5A$	-	-	1.0	V
$V_{BE(ON)}$	$V_{CE}=5.0V, I_C=5.0A$	-	-	1.2	V
f_T	$V_{CE}=5V, I_C=1.0A$	-	30	-	MHz
C_{Ob}	$V_{CE}=10V, I_E=0, f=1.0MHz$	-	-	400	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-3P	$R_{th(j-c)}$	-	0.83	℃/W

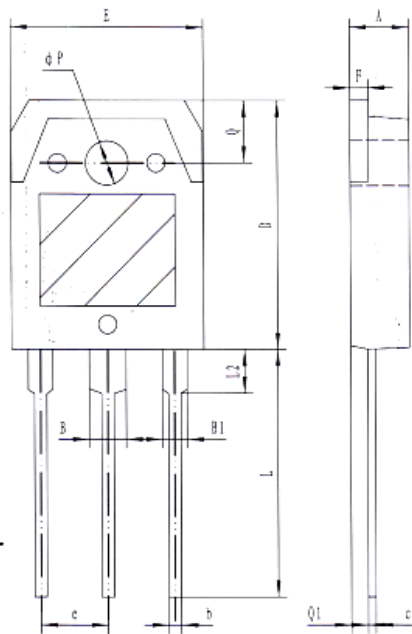
特征曲线 ELECTRICAL CHARACTERISTICS (curves)

 $h_{FE} - I_C$ (NJW 0281G) $h_{FE} - I_C$ (NJW 0302G) $V_{BE} - I_C$ (NJW 0281G) $V_{BE} - I_C$ (NJW 0302G) $V_{CE(sat)} - I_C$ (NJW 0281G) $V_{CE(sat)} - I_C$ (NJW 0281G)



外形尺寸 PACKAGE MECHANICAL
TO-3P

单位 Unit : mm



符号	尺寸 (mm)
A	4.60-5.00
B	2.90-3.20
B1	1.90-2.20
b	0.90-1.10
c	0.50-0.70
D	19.40-20.40
E	15.40-15.80
e	5.45(TYP)
F	1.40-1.60
L	19.50-20.50
L2	3.30-3.70
P	3.10-3.50
Q	4.90-5.10
Q1	1.30-1.50