















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	NJW0281G
Overseas Part Number	NJW0281G
▶ Equivalent Part Number	NJW0281G



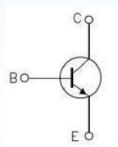


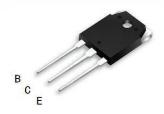
Silicon NPN transistor

Power Amplifier Applications

- ①Complementary to NJW0302G
- ②High collector voltage:VCEO=230V (min)
- ③Recommended for 100-W high-fidelity audio frequency amplifier Output stage

Note1: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.





TO-3P

ORDERING INFORMATION

Ordering Codes	Package	Product Code	Packing
NJW0281G	TO-3P	NJW0281G	Tube

Absolute Maximum Ratings(Tc=25 $^{\circ}$ C):

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	230	V
Collector-emitter voltage	Vceo	230	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	lc	15	Α
Bese current	I _B	1.5	Α
Collector power dissipation(Tc=25℃)	Pc	150	W
Junction temperature	Tj	150	$^{\circ}$
Storage temperature range	Тѕтб	-55~150	$^{\circ}$

Electrical Characteristics (Tc=25 $^{\circ}$ C):

Characteristics	Symbol	Test Condition	Min	Тур	Max	Unit
Collector cut-off current	Ісво	Vcb=230V; IE=0			10	uA
Emitter cut-off current	І ЕВО	V _{EB} =5V; I _c =0			10	uA
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =50mA,I _B =0	230			V
	hfe	Vc=5V; lc=1A;	80		160	
Dc current gain	h _{FE(2)}	Vce=5V; Ic=7A;	35			

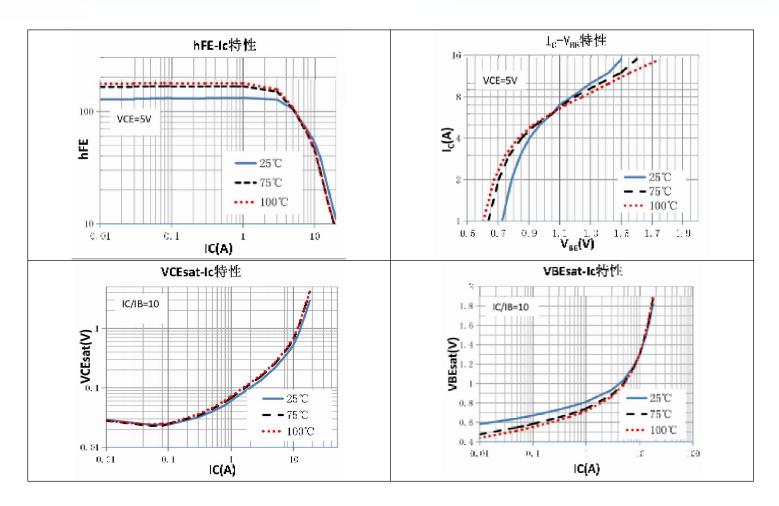


Silicon NPN transistor

Collector-emitter saturation voltage	V _{CE} (sat)	Ic=8A; I _B =0.8A		3.0	V
Base-emitter voltage	V _{BE}	V _{CE} =5V;I _C =7A		1.5	
Transition frequency	f⊤	V _{CE} =5V; I _C =1A	30		MHz

Symbol	Paramter	Тур	Units
$R_{ heta JC}$	Junction-to-Case	0.35	°C/W

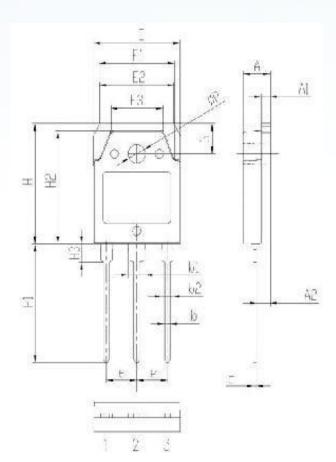
TYPICAL CHARACTERISTICS





Silicon NPN transistor

Package Information



Dimensions(millimeter				
Symbol	Min.	Max.		
А	4.60	5.00		
A1	1.30	1.70		
A2	2.20	2.60		
b	0.80	1.20		
b1	2.90	3.30		
b2	1.90	2.30		
C	0.40	0.80		
е	5.25	5.65		
E	15.3	15.7		
E1	13.2	13.6		
E2	13.1	13.5		
E3	9.10	9.50		
Н	19.7	20.1		
H1	19.1	20.1		
H2	18.3	18.7		
H3	2.80	3.20		
G	4.80	5.20		
ФР	3.00	3.40		

TO-3PB PACKAGE



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