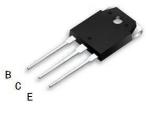


NJW0281G

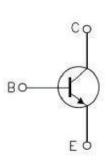
Silicon NPN Triple Diffused Type

Complementary to NJW0302G
High collector voltage:VCEO=230V (min)
Recommended 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.



Absolute Maximum Ratings(Tc=25℃)

Characteristics	Symbol	Rating	Unit
Collector-base voltage	Vсво	230	V
Collector-emitter voltage	νςεο	230	V
Emitter-base voltage	Vebo	5	V
Collector current	lc	15	A
Bese current	IB	1.5	A
Collector power dissipation(Tc=25 $^\circ C$)	Pc	150	W
Junction temperature	Tj	150	°C
Storage temperature range	Тѕтс	-55~150	°C

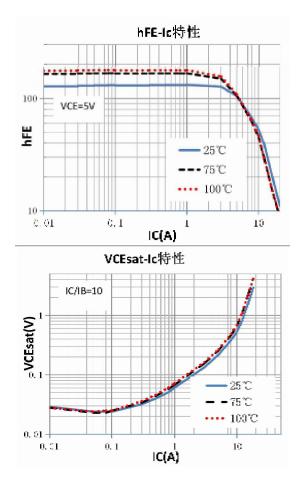
Electrical Characteristics (Tc=25 °C)

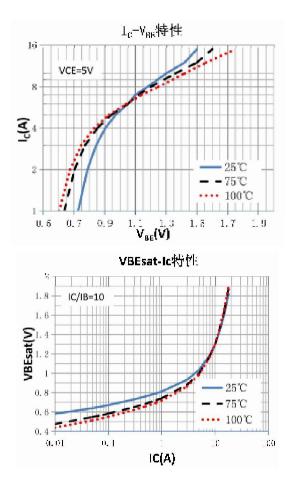
Characteristics	Symbol	Test Condition	Min	Тур	Max	Unit
Collector cut-off current	Ісво	Vcb=230V; IE=0			10	uA
Emitter cut-off current	Іево	VEB=5V; Ic=0			10	uA
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _c =50mA,I _B =0	230			V
	hfe	Vce=5V; Ic=1A;	80		160	
Dc current gain	h _{FE(2)}	Vce=5V; Ic=7A;	35			
Collector-emitter saturation voltage	Vce(sat)	Iс=8А; Iв=0.8А			3.0	V
Base-emitter voltage	V _{BE}	V _{CE} =5V;I _C =7A			1.5	
Transition frequency	fī	V _{CE} =5V; I _C =1A		30		MHz



Symbo	l Paramter	Тур	Units
R _{ejc}	Junction-to-Case	0.35	°C/W

TYPICAL CHARACTERISTICS

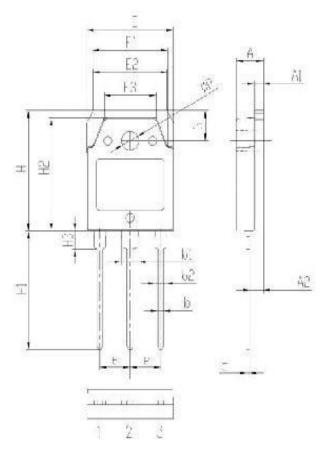








Package Information



Symbol	Dimensions(millimeters)		
Symbol	Min.	Max.	
A	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	
С	0.40	0.80	
e	5.25	5.65	
E	15.3	15.7	
E1	13.2	13.6	
E2	13.1	13.5	
E3	9.10	9.50	
H	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