















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	NJW21194G
Overseas Part Number	NJW21194G
▶ Equivalent Part Number	NJW21194G



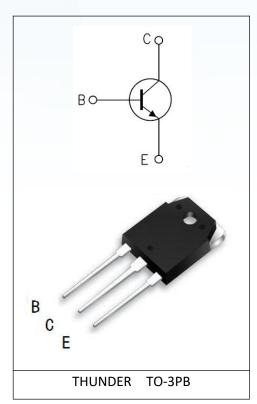


Transistor Silicon NPN Triple Diffused Type

Power Amplifier Applications

- Complementary to NJW21193G
- High collector voltage:VCEO=250V (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 $^{\circ}$ C):

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	400	V
Collector-emitter voltage	Vceo	250	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	Ic	16	А
Bese current	I _B	5	А
Collector power dissipation(Tc=25°C)	Pc	200	W
Junction temperature	Tj	150	$^{\circ}$
Storage temperature range	Тѕтб	-55~150	$^{\circ}$



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

Characteristics	Symbol	Test Condition	Min	Тур	Max	Unit
Collector cut-off current	Ісво	V _{CB} =250V; I _E =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	250			V
	hfe	VCE=5V; Ic=8A;	20		80	
Dc current gain	h _{FE(2)}	VcE=5V; Ic=16A;	8			
Collector-emitter saturation voltage	Vce(sat)	Ic=8A; Iв=0.8A			1.4	V
	Vce(sat)	Ic=16A; Iв=3.2A			4	V
Base-emitter voltage	V_{BE}	$V_{CE}=5V;I_{C}=8A$			2.2	V
Transition frequency	f⊤	V _{CE} =10V; I _C =1A	4			MHz

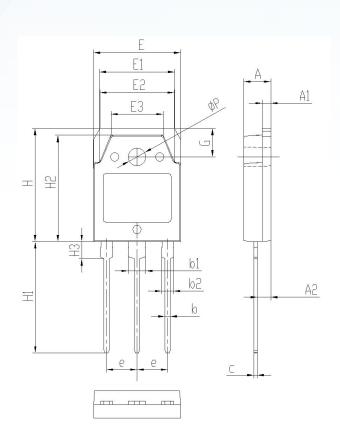
Symbol	Paramter	Тур	Units
$R_{ heta JC}$	Junction-to-Case	0.63	°C/W



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Package Information

TO-3PB PACKAGE



Symbol	UNIT(mm)			
Syllibol	Min.	Тур.	Max.	
А	4.60	4.80	5.00	
A1	1.3	1.5	1.7	
A2	2.20	2.40	2.60	
b	0.80	1.0	1.20	
b1	2.90	3.10	3.30	
b2	1.80	2.00	2.20	
С	0.50	0.60	0.70	
е	5.25	5.45	5.65	
E	15.2	15.6	16.0	
E1	13.2	13.4	13.6	
E2	15.1	15.3	16.5	
E3	9.1	9.3	9.5	
Н	19.8	20.0	20.2	
H1	19.0	19.5	20.0	
H2	18.3	18.5	18.7	
Н3	2.8	3.0	3.2	
G	4.8	5.0	5.2	
ФР	3.00	3.20	3.40	



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