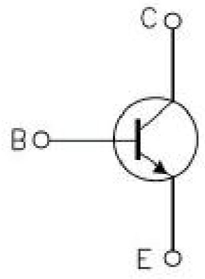
Transistor Silicon NPN Triple Diffused Type

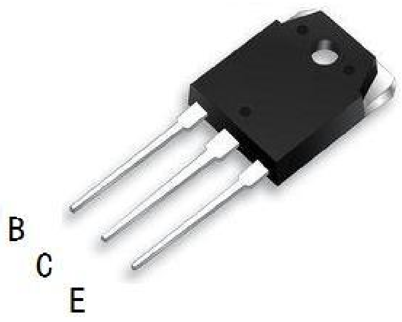
NJW0281G

Power Amplifier Applications

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.





MINOS TO-3PB

Absolute Maximum Ratings(Tc=25℃):

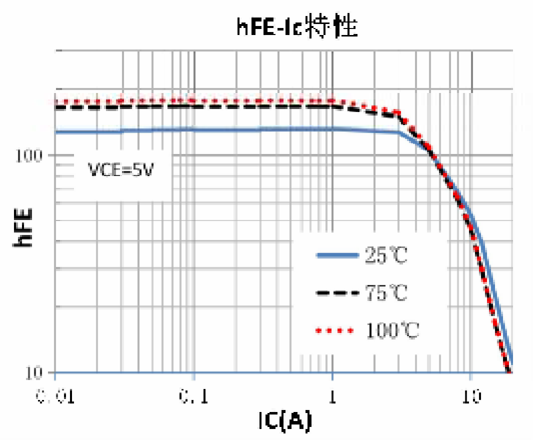
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	230	V
Collector-emitter voltage	V_{CEO}	230	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_C	15	A
Bese current	I_B	1.5	A
Collector power dissipation(Tc=25℃)	P_C	150	W
Junction temperature	T_j	150	℃
Storage temperature range	T_{STG}	-55~150	℃

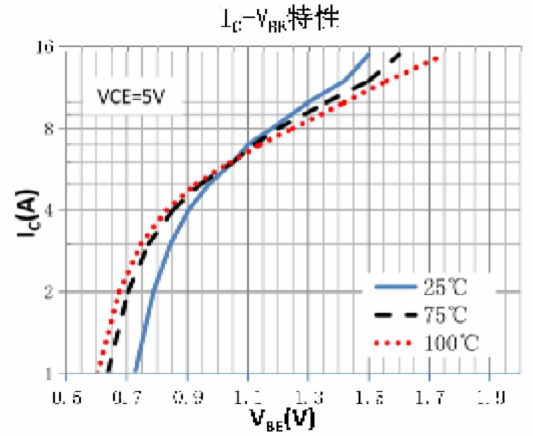
Electrical Characteristics (Tc=25℃):

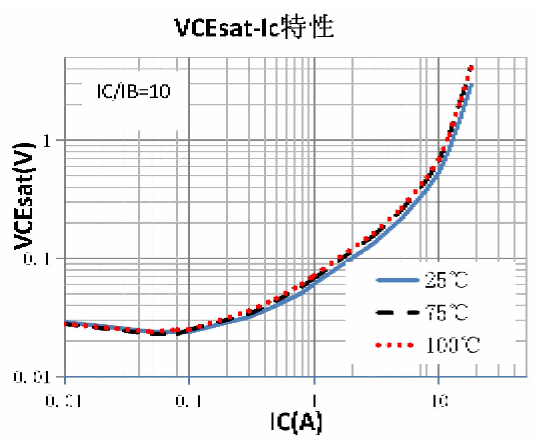
Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	V_{CB}=230V; I_E=0			10	uA
Emitter cut-off current	I_{EBO}	V_{EB}=5V; I_c=0			10	uA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=50mA,I_B=0	230			V
Dc current gain	h_{FE}	V_{CE}=5V; I_C=1A;	80		160	
	$h_{FE(2)}$	V_{CE}=5V; I_C=7A;	35			
Collector-emitter saturation voltage	V_{CE}(sat)	I_C=8A; I_B=0.8A			3.0	V
Base-emitter voltage	V_{BE}	V_{CE}=5V;I_C=7A			1.5	
Transition frequency	f_T	V_{CE}=5V; I_C=1A		30		MHz

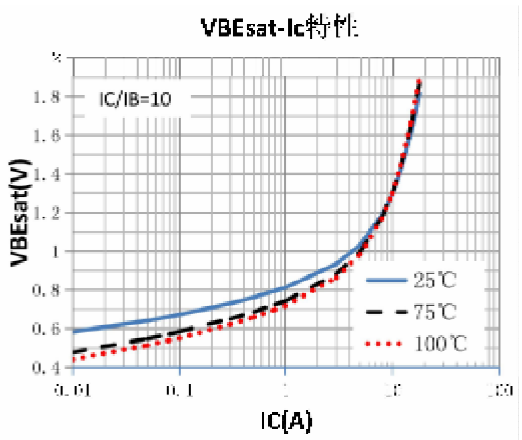
Symbol	Paramter	Typ	Units
$R_{θJC}$	Junction-to-Case	0.35	℃/W

TYPICAL CHARACTERISTICS



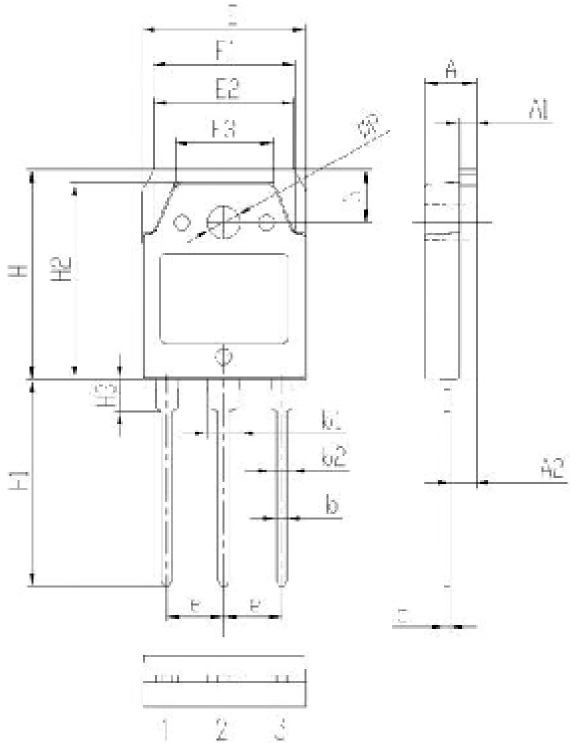






Package Information

TO-3PB PACKAGE



Symbol	Dimensions(millimeters)	
	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
c	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
ΦP	3.00	3.40

Notice

Please note that

Minos electronics co., LTD. Reserves the right to change any product or specification without prior notice. When using the product, be sure to get the latest specifications.

Minos electronics limited assumes no liability whatsoever arising from this application or the products described herein. When using Minos electronics LTD. 's products in your equipment, please take adequate safety measures to prevent the equipment from causing personal injury, fire or other problems in the event of any product failure.

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