

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	MJL3281A
▶ Overseas	Part Number	MJL3281A
▶ Equivalent	Part Number	MJL3281A

EV is the abbreviation of name EVVO

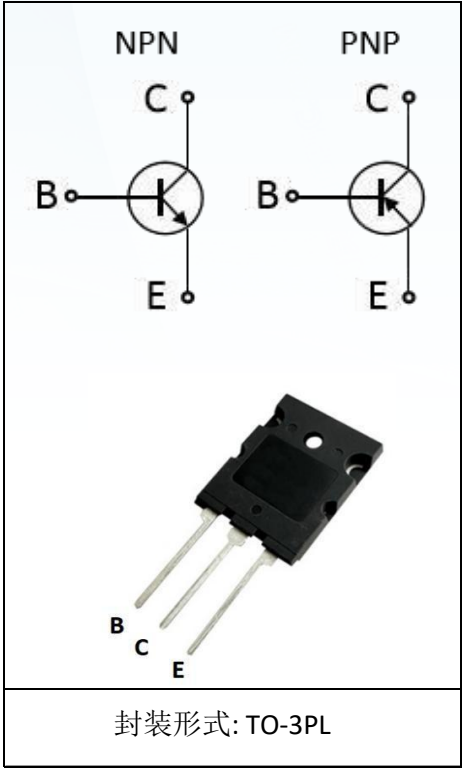
Minos Silicon NPN Epitaxial Type

MJL3281A

Power Amplifier Applications

- ① Complementary to MJL1302A
- ② High collector voltage: $V_{CEO}=260V(\text{min})$
- ③ Recommended for 100-W high-fidelity audio frequency amplifier Output stage

Note: 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($T_c=25^{\circ}\text{C}$):

Symbol	Parameter	Value	Units
V_{CBO}	Collector-base voltage	260	V
V_{CEO}	Collector-emitter voltage	260	V
V_{EBO}	Emitter-base voltage	5	V
I_C	Collector current	15	A
I_B	Base current	5	A
P_C	Collector power dissipation ($T_c=25^{\circ}\text{C}$)	200	W
T_j	Junction temperature	150	$^{\circ}\text{C}$
T_{STG}	Storage temperature range	-55~150	$^{\circ}\text{C}$

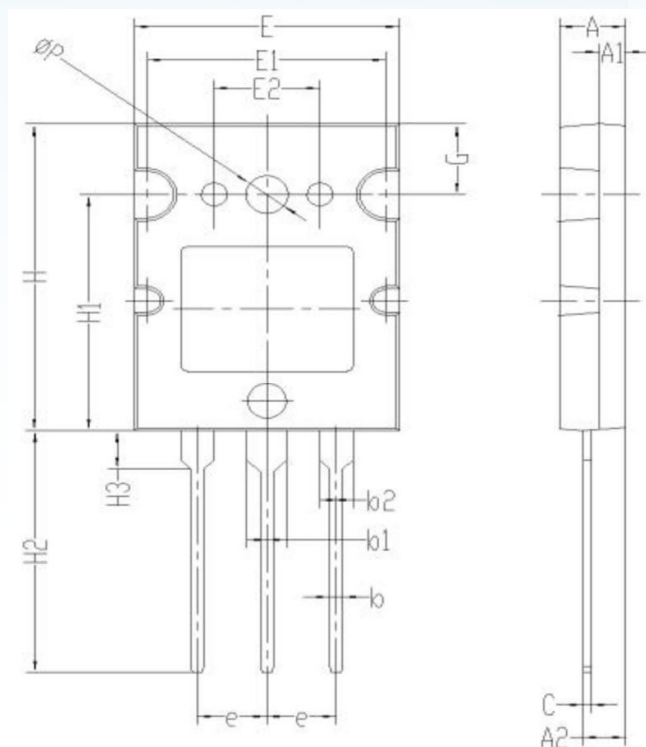
Thermal Characteristics

Symbol	Parameter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	0.63	$^{\circ}\text{C/W}$

Electrical Characteristics (T_c=25°C)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Units
I _{CBO}	Collector cut-off current	V _{CB} =250V; I _E =0	--	--	50.0	μA
I _{EBO}	Emitter cut-off current	V _{EB} =5V; I _C =0	--	--	50.0	μA
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =50mA; I _B =0	260	--	--	V
h _{FE}	DC current gain	V _{CE} =5V; I _C =8A;	20	--	80	
h _{FE(2)}		V _{CE} =5V; I _C =15A;	8	--	--	
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =8A; I _B =0.8A	--	--	1.4	V
V _{CE(sat)}		I _C =15A; I _B =3.2A	--	--	4	V
V _{BE}	Base-emitter voltage	V _{CE} =5V; I _C =8A	--	--	2.2	V
f _T	Transition frequency	V _{CE} =10V; I _C =1A	4	--	--	MHz

Package Description



Symbol	Values(mm)	
	Min.	Max.
A	4.80	5.20
A1	1.80	2.20
A2	3.00	3.40
b	0.80	1.20
b1	2.80	3.20
b2	2.30	2.70
c	0.40	0.80
e	5.25	5.65
E	19.80	20.20
E1	17.80	18.20
E2	7.80	8.20
H	25.80	26.20
H1	19.80	20.20
H2	20.00	21.00
H3	3.05	3.45
G	5.80	6.20
ΦP	3.10	3.50
J	4.80	5.20
K	1.80	2.20

TO-3PL Package

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