

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	MJW1302A
▶ Overseas	Part Number	MJW1302A
▶ Equivalent	Part Number	MJW1302A

EV is the abbreviation of name EVVO

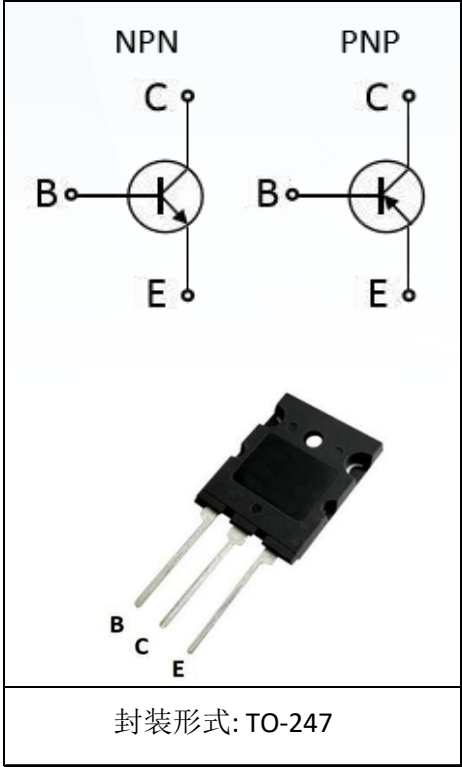
Minos Silicon PNP Epitaxial Type

MJW1302A

Power Amplifier Applications

- ① Complementary to MJW3281A
- 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($T_c=25^{\circ}C$):

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 ($T_c=25^{\circ}C$)	200	W
T_j	Junction temperature	150	$^{\circ}C$
T_{STG}	Storage temperature range	-55~150	$^{\circ}C$

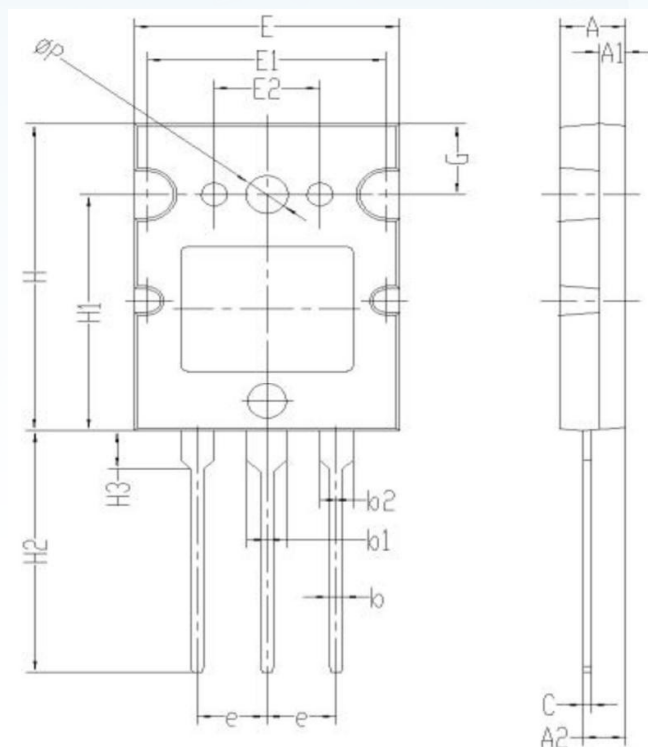
Thermal Characteristics

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

Electrical Characteristics (Tc=25℃)

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-247 Package

Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.