

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	MJL21196G
▶ Overseas	Part Number	MJL21196G
▶ Equivalent	Part Number	MJL21196G

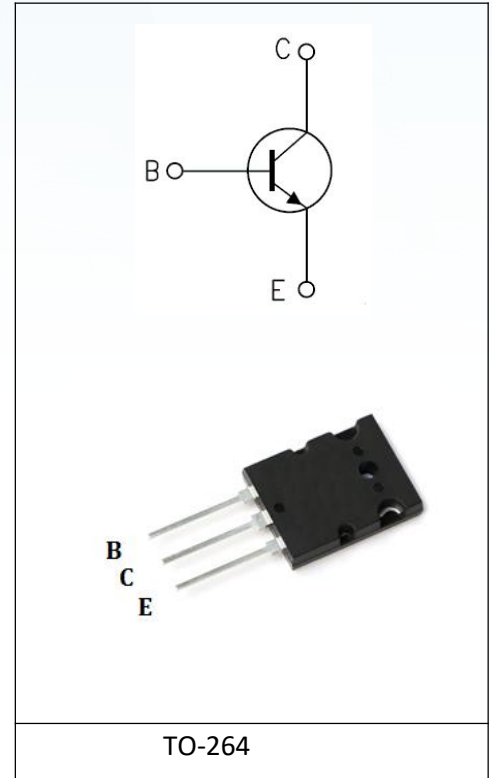
EV is the abbreviation of name EVVO

Transistor Silicon NPN Triple Diffused Type
MJL21196

Power Amplifier Applications

- Complementary to MJL21195
- High collector voltage: $V_{CEO}=250V$ (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.



TO-264

Absolute Maximum Ratings($T_c=25^{\circ}C$):

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	400	V
Collector-emitter voltage	V_{CEO}	250	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_c	16	A
Base current	I_B	5	A
Collector power dissipation($T_c=25^{\circ}C$)	P_c	230	W
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature range	T_{STG}	-55~150	$^{\circ}C$

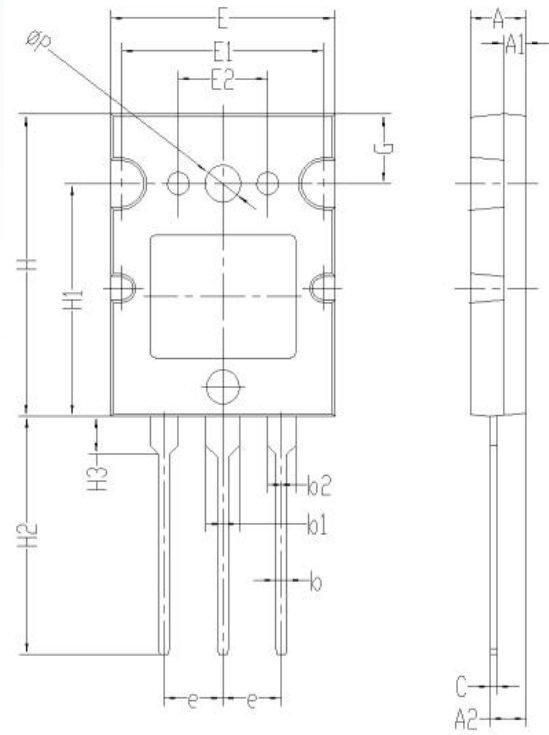
Electrical Characteristics (T_c=25 °C):

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I _{CBO}	V _{CB} =250V; 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	250			V
Dc current gain	h _{FE}	V _{CE} =5V; I _C =8A;	20		80	
	h _{FE(2)}	V _{CE} =5V; I _C =16A;	8			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =8A; I _B =0.8A			1.4	V
	V _{CE(sat)}	I _C =16A; I _B =3.2A			4	V
Base-emitter voltage	V _{BE}	V _{CE} =5V; I _C =8A			2.2	V
Transition frequency	f _T	V _{CE} =10V; I _C =1A	4			MHz

Symbol	Paramter	Typ	Units
R _{θJC}	Junction-to-Case	0.63	°C/W

Package Information

TO-264 PACKAGE



Symbol	Dimensions (millimeters)	
	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	19.8	20.2
E1	17.8	18.2
E2	7.8	8.2
H	25.8	26.2
H1	19.8	20.2
H2	20.0	21.0
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

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.