EVVOSEMI®
THINK CHANGE DO

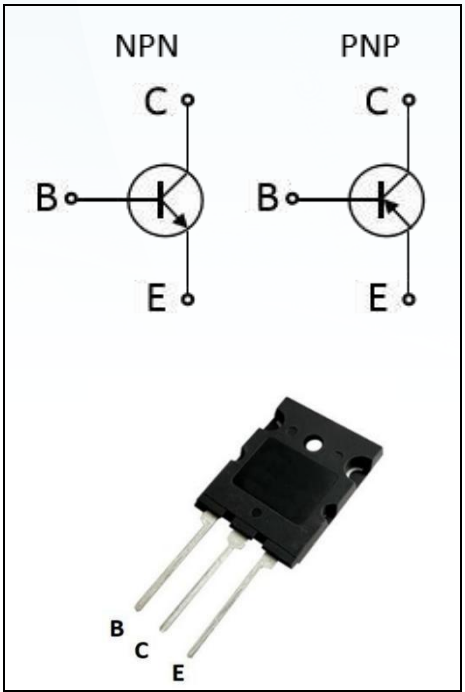
ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	MJL1302A
Overseas Part Number	MJL1302A
Equivalent Part Number	MJL1302A

Minos Silicon PNP Epitaxial Type

MJL1302A



封装形式: TO-3PL

Power Amplifier Applications

① Complementary to MJL3281A
② High collector voltage:V_{CEO}=-260V(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(Tc=25℃):

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 (Tc=25℃)	200	W
T_j	Junction temperature	150	℃
T_{STG}	Storage temperature range	-55~150	℃

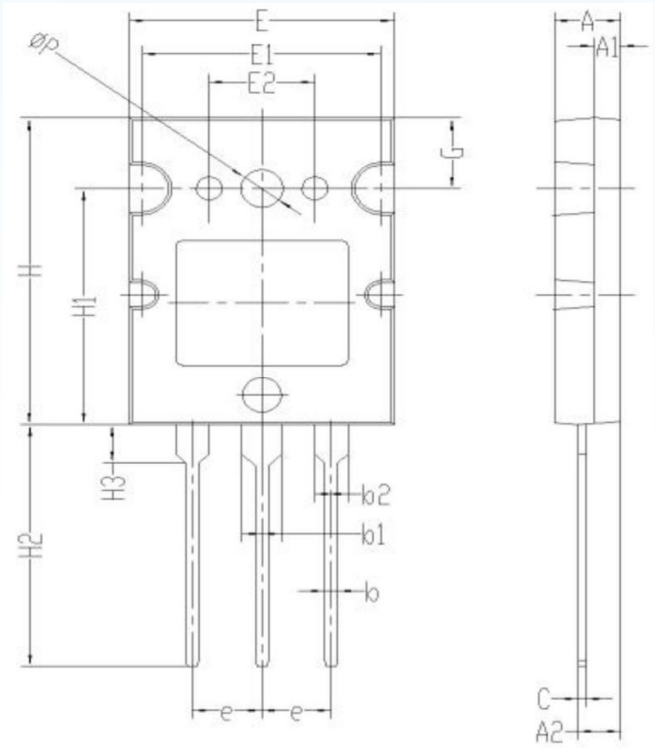
Thermal Characteristics

Symbol	Parameter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	0.63	℃/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	uA
I_{EBO}	Emitter cut-off current	V_{EB}=-5V; I_c=0	--	--	-50.0	uA
$V_{(BR)CEO}$	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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