

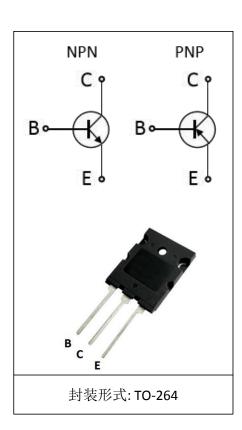
Minos Silicon PNP Epitaxial Type

MJL21193

Power Amplifier Applications

- 1 Complementary to MJL21194
- (2) High collector voltage:VCEO=-250V(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 $^{\circ}$ C):

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{СВО}	-400	V
Collector-emitter voltage	V _{CEO}	-250	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	Ic	-16	Α
Base current	I _B	-5	Α
Collector power dissipation (Tc=25 $^{\circ}$ C)	Pc	200	W
Junction temperature	Tj	150	$^{\circ}$ C
Storage temperature range	Тѕтб	-55~150	$^{\circ}$ C

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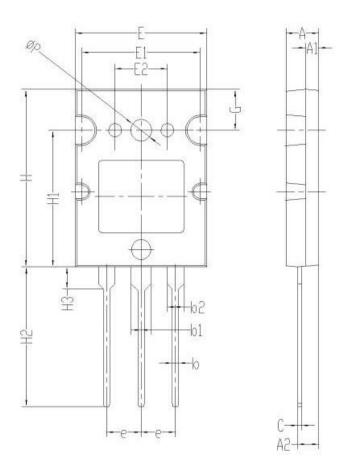
Electrical Characteristics (Tc=25°C):

Characteristics	Symbol	Test Condition	Min	Тур	Max	Unit
Collector cut-off current	Ісво	V _{CB} =-250V; I _E =0			-10.0	uA
Emitter cut-off current	ІЕВО	V _{EB} =-5V; I _c =0			-10.0	uA
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-50mA;I _B =0	-250			V
	hfE	Vce=-5V; Ic=-8A;	20		80	
DC current gain	h _{FE(2)}	Vce=-5V; Ic=-16A;	8			
Collector-emitter saturation voltage	Vce(sat)	Ic=-8A; I _B =-0.8A			-1.4	V
	Vce(sat)	Ic=-16A; I _B =-3.2A			-4	V
Base-emitter voltage	V _{BE}	V _{CE} =-5V;I _C =-8A			-2.2	V
Transition frequency	f⊤	Vce=-10V; Ic=-1A	4			MHz

Symbol	Paramter	Тур	Units
$R_{ heta JC}$	Junction-to-Case	0.63	°C/W



Package Information



	Dimensions(millimeters)				
Symbol	<u> </u>				
	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			
С	0.40	0.80			
е	5.25	5.65			
Е	19.8	20.2			
E1	17.8	18.2			
E2	7.8	8.2			
Н	25.8	26.2			
H1	19.8	20.2			
H2	20.0	21.0			
H3	3.05	3.45			
G	5.80	6.20			
ΦР	3.10	3.50			
J	4.80	5.20			
K	1.80	2.20			

TO-264 PACKAGE





NOTE:

- 1. Exceeding the maximum ratings of the device in performance may cause damage to the device, even the permanent failure, which may affect the dependability of the machine. Please do not exceed the absolute maximum ratings of the device when circuit designing.
- 2. When installing the heat sink, please pay attention to the torsional moment and the smoothness of the heat sink.
- **3.** MOSFETs is the device which is sensitive to the static electricity, it is necessary to protect the device from being damaged by the static electricity when using it.
- **4.** Shenzhen Minos reserves the right to make changes in this specification sheet and is subject to change withoutprior notice.

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