

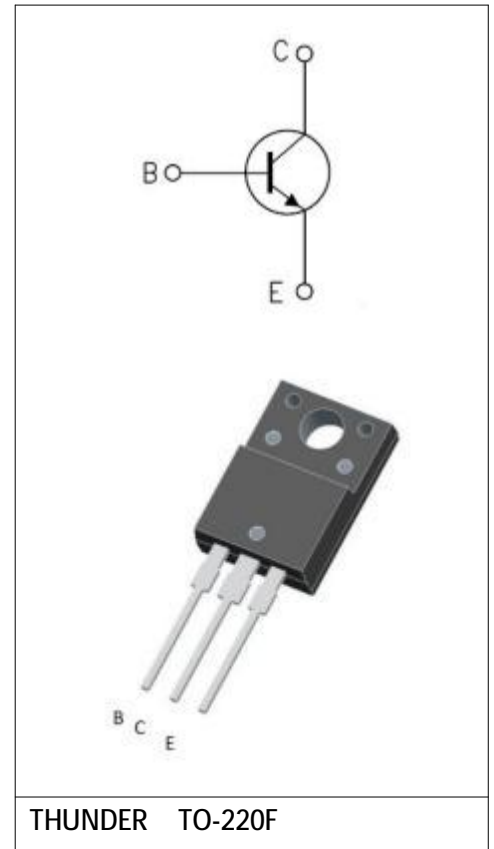
Minos Silicon NPN Triple diffusion Type

2SC4793

Power Amplifier Applications

- Complementary to 2SA1837
- High collector voltage: $V_{CEO}=230V$ (min)

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

Characteristics	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	230	V
Collector-emitter voltage	V_{CEO}	230	V
Emitter-base voltage	V_{EBO}	5	V
Collector current	I_c	1	A
Base current	I_B	0.2	A
Collector power dissipation ($T_c=25^{\circ}C$)	P_c	50	W
Junction temperature	T_j	150	$^{\circ}C$
Storage temperature range	T_{STG}	-55~150	$^{\circ}C$

Thermal Characteristics

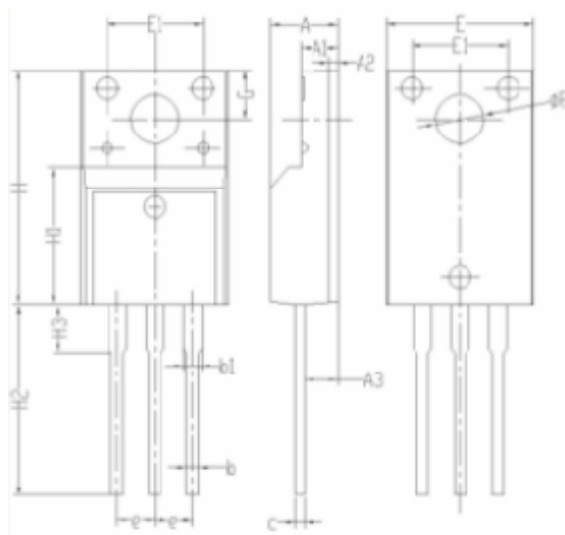
Symbol	Paramter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	3.0	$^{\circ}C/W$

Electrical Characteristics (T_c=25℃):

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Cut-off Current	I _{CBO}	V _{CB} =230V, I _E =0			1.0	uA
Emitter-Base Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0			1.0	uA
Collector-Emitter Breakdown Voltage	V _{CEO}	I _C =1mA	230			V
DC current gain	h _{FE}	I _C =0.1A; V _{CE} =5V	100		300	
Collector-emitter saturation voltage	V _{CEsat}	I _C =0.5A; I _B =0.05A			0.5	V
Base-Emitter Saturation Voltage	V _{BEsat}	I _C =0.5A, I _B =0.05A			1.4	V
Base-emitter voltage	V _{BE}	V _{CE} =5V; I _C =0.5A			1.5	V
Transition frequency	f _T	V _{CE} =10V; I _C =100mA		40		MHZ

Package Information

TO-220F PACKAGE



Symbol	Dimensions (millimeters)	
	Min.	Max.
A	4.35	4.75
A1	2.30	2.70
A2	0.40	0.80
A3	2.10	2.50
b	0.60	1.00
b1	1.00	1.40
c	0.30	0.70
e	2.30	2.70
E	9.80	10.2
E1	6.30	6.70
H	15.6	16.0
H1	8.80	9.20
H2	12.9	13.5
H3	3.10	3.50
G	3.10	3.50
ΦP	3.10	3.50

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