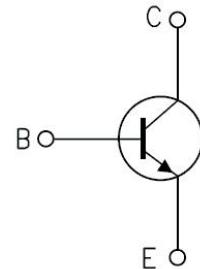
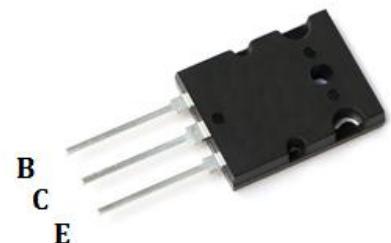


Power Amplifier Applications

- Complementary to TTA1943
- High collector voltage: V_{CEO}=230V (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-3PL

Absolute Maximum Ratings(Tc=25°C):

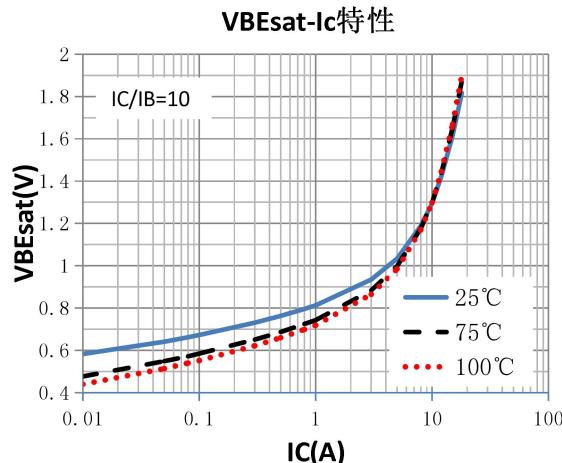
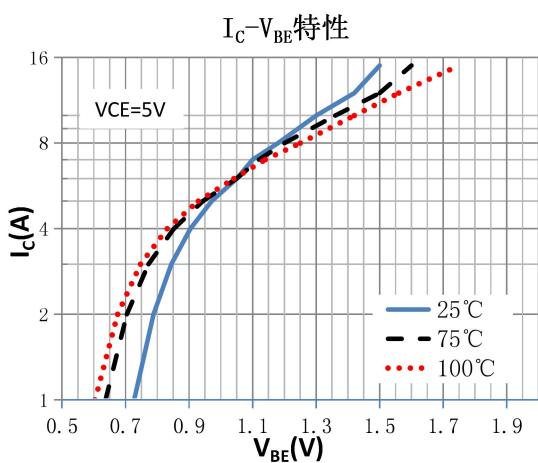
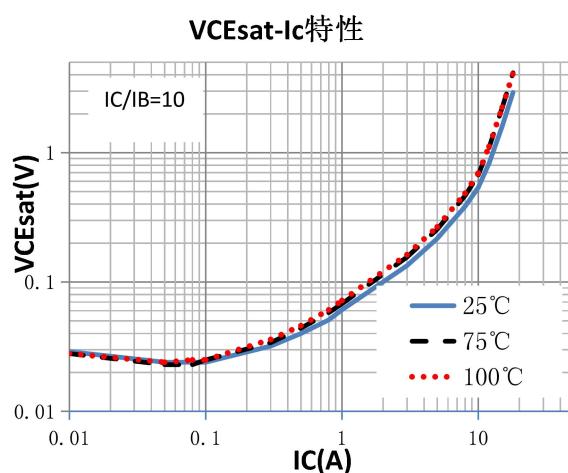
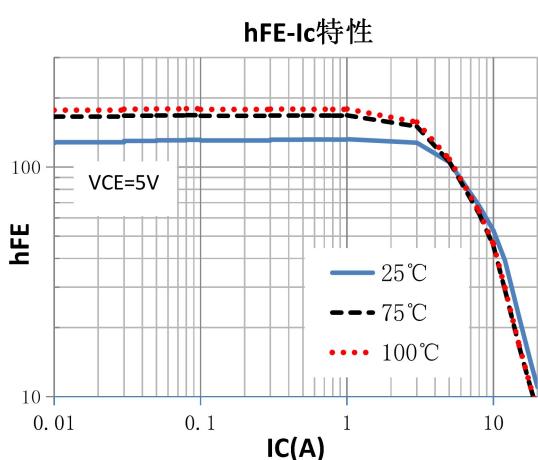
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	230	V
Collector-emitter voltage	V _{C EO}	230	V
Emitter-base voltage	V _{EBO}	5	V
Collector current	I _C	15	A
Base current	I _B	1.5	A
Collector power dissipation(Tc=25°C)	P _C	150	W
Junction temperature	T _j	150	°C
Storage temperature range	T _{STG}	-55~150	°C

Electrical Characteristics (Tc=25°C):

Minos Silicon NPN Triple Diffused Type

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB}=230V; I_E=0$			10	uA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V; I_c=0$			10	uA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c=50mA, I_B=0$	230			V
Dc current gain	h_{FE}	$V_{CE}=5V; I_c=1A;$	80		160	
	$h_{FE(2)}$	$V_{CE}=5V; I_c=7A;$	35			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c=8A; I_B=0.8A$			3.0	V
Base-emitter voltage	V_{BE}	$V_{CE}=5V; I_c=7A$			1.5	
Transition frequency	f_T	$V_{CE}=5V; I_c=1A$		30		MHz

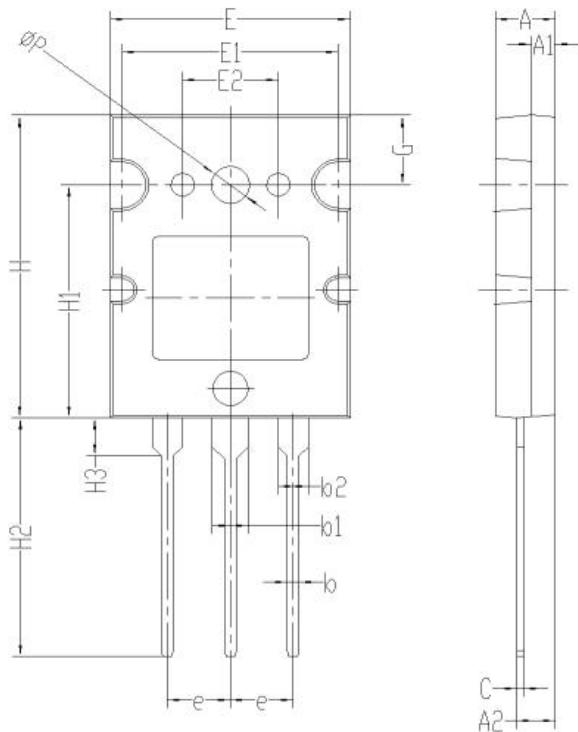
Symbol	Paramter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	0.35	°C/W

TYPICAL CHARACTERISTICS


Package Information

Minos Silicon NPN Triple Diffused Type

TO-3PL 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