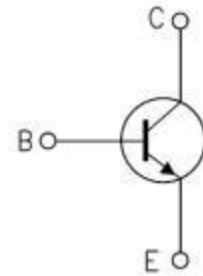
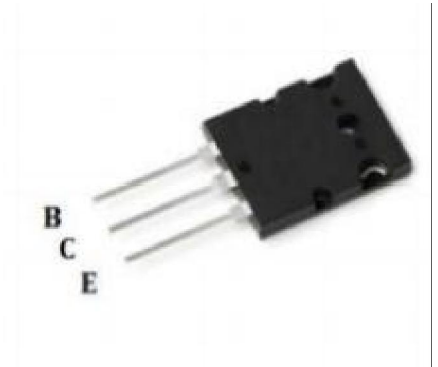


Features:

- ① Power Amplifier Applications
- ② Complementary to 2SA1943
- ③ High collector voltage: $V_{CEO}=230V$ (min)
- ④ 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.



MINOS TO-3PL

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}	7	V
Collector current		I_C	17	A
Base current		I_B	3	A
Collector power dissipation	$T_c=25^{\circ}C$	P_C	180	W
Junction temperature		T_j	150	$^{\circ}C$
Storage temperature range		T_{STG}	-55~150	$^{\circ}C$

Package Marking And Ordering Information:

Ordering Codes	Package	Product Code	Packing
2SC5200	TO-3PL	5200	Tube

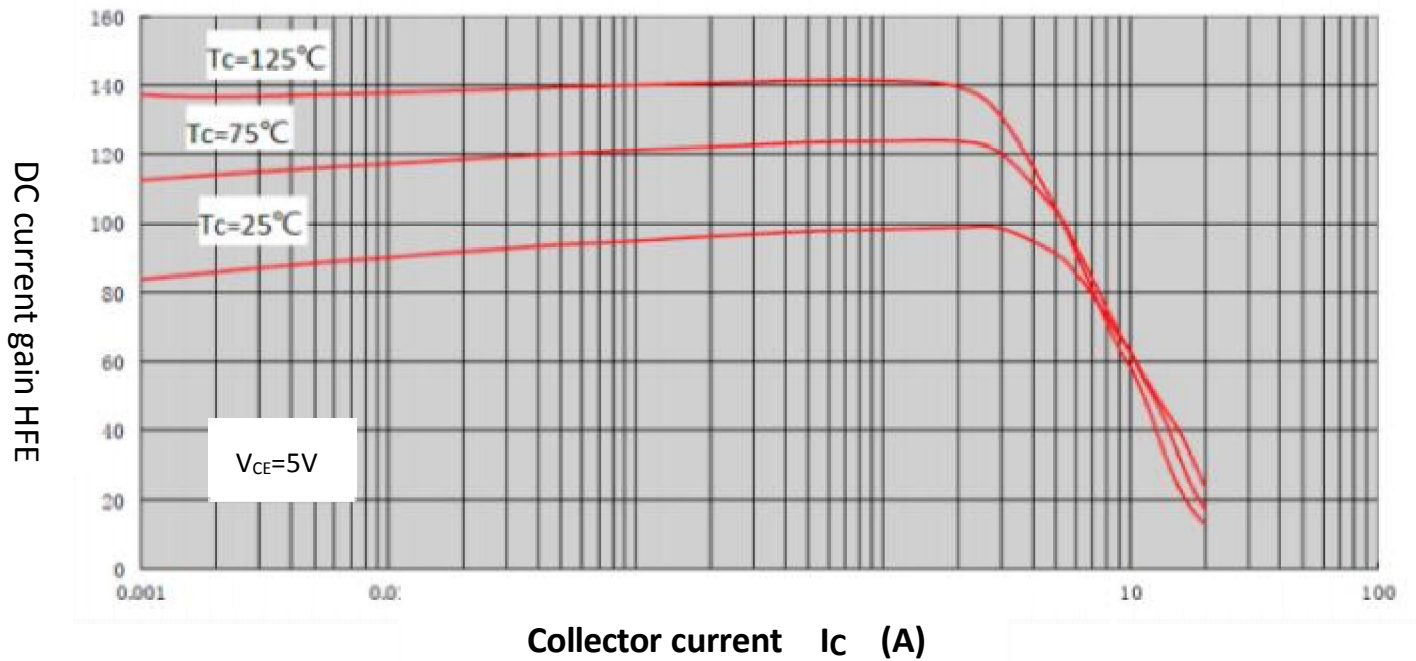
Electrical Characteristics $T_c = (25^\circ\text{C})$

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB}=230V;$ $I_E=0$			500	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=7V;$ $I_C=0$			500	μA
Dc current gain	h_{FE}	$I_C=5A;$ $V_{CE}=4V;$	70		140	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=4A;$ $I_B=0.4A$			0.5	V
Transition frequency	f_T	$V_{CE}=10V;$ $I_{CE}=500mA ;f=1MHZ$		58		MHZ

Symbol	Parameter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	0.68	$^\circ\text{C}/W$

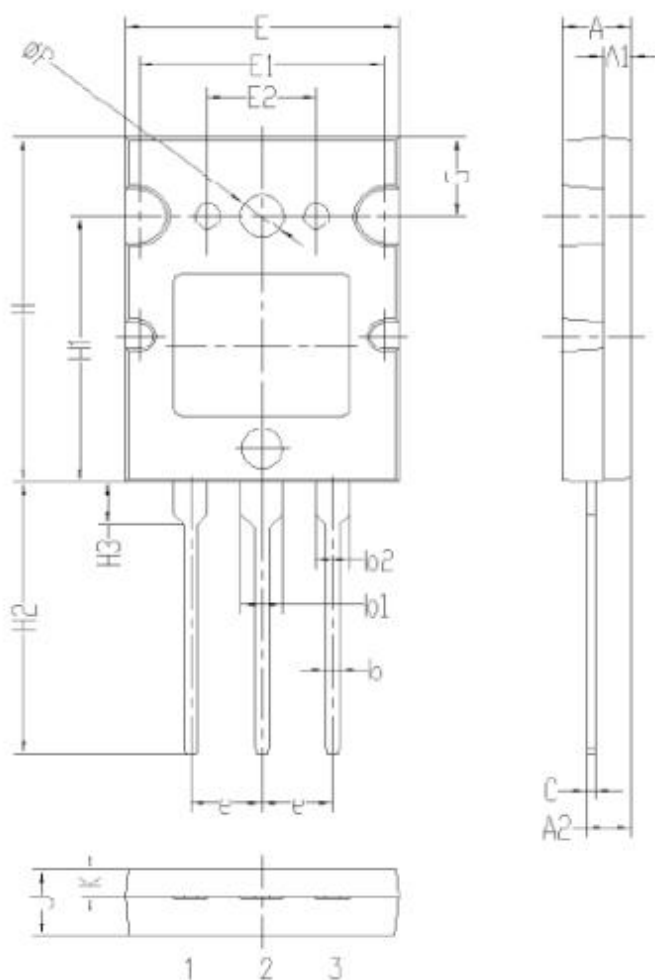
TYPICAL CHARACTERISTICS

$h_{FE}-I_C$



Package Information

TO-3PL PACKAGE



	単位 mm		
	MIN	NOM	MAX
A	4.8	5	5.2
A'	1.8	2	2.2
A2	3	3.2	3.4
b	0.8	1	1.2
b1	2.8	3	3.2
b2	2.3	2.5	2.7
c	0.4	0.6	0.8
e	5.25	5.45	5.65
E	19.8	20	20.2
E1	17.8	18	18.2
E2	7.8	8	8.2
H	25.8	26	26.2
H1	19.8	20	20.2
H2	20	20.5	21
H3	3.05	3.25	3.45
G	5.8	6	6.2
ϕP	3.1	3.3	3.5
J	4.8	5	5.2
K	1.8	2	2.2