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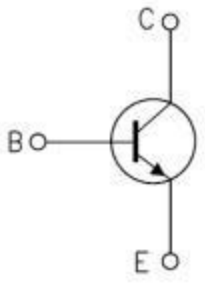
2SA1943

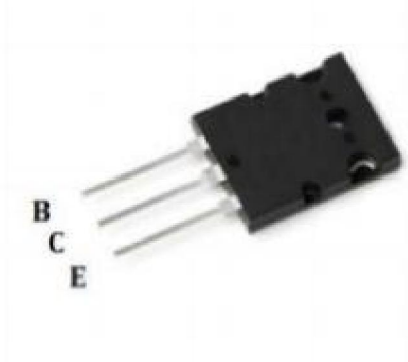
Silicon NPN transistor

Features:

① Power Amplifier Applications
② Complementary to 2SC5200
③ High collector voltage:VCEO=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.



TO-3PL

Absolute Maximum Ratings（Tc=25℃）

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	-5	A
Collector power dissipation	Tc=25℃	P_C	180	W
Junction temperature		T_j	150	℃
Storage temperature range		T_{STG}	-55~150	℃

Package Marking And Ordering Information：

Ordering Codes	Package	Product Code	Packing
2SA1943	TO-3PL	1943	Tube

2SA1943

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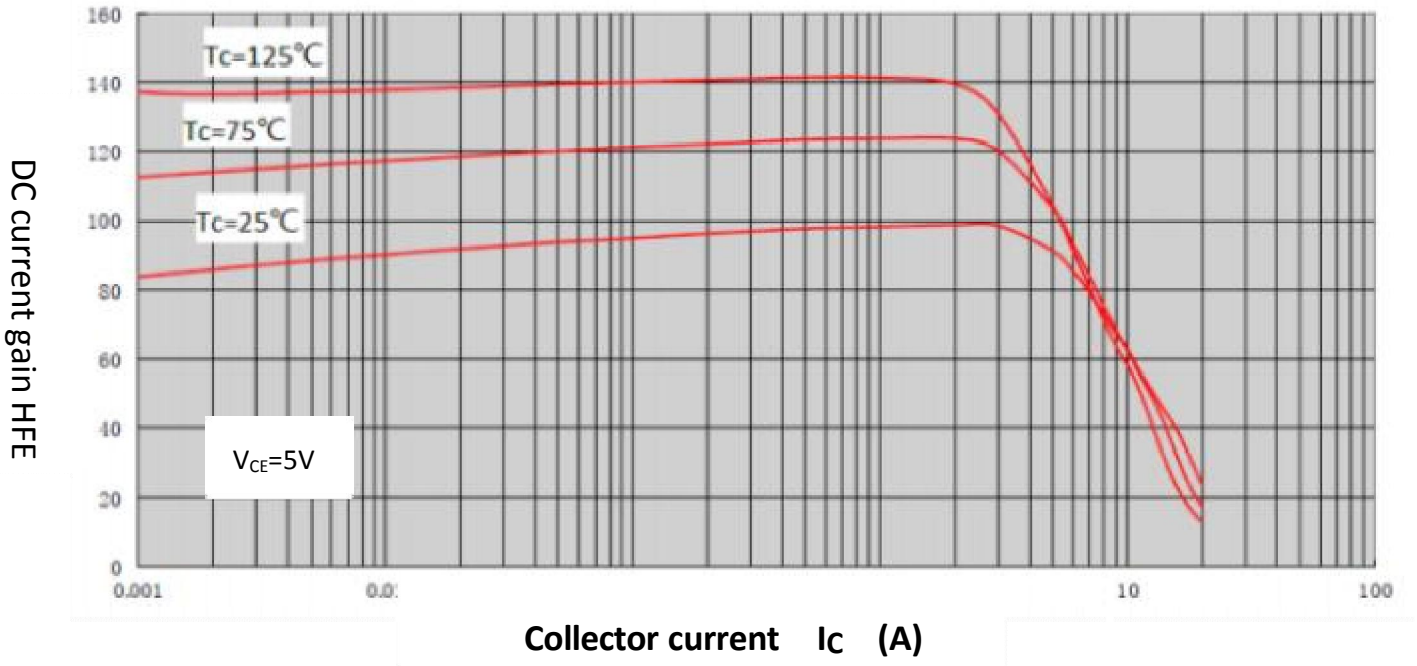
Electrical CharacteristicsTc=（25℃）

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	V_{CB}=-230V; I_E=0			-500	uA
Emitter cut-off current	I_{EBO}	V_{EB}=-7V; I_C=0			-500	uA
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}=-0.5A ;f=1MHZ		28		MHZ

Symbol	Paramter	Typ	Units
$R_{\theta JC}$	Junction-to-Case	0.68	℃/W

TYPICAL CHARACTERISTICS

H_{FE}--I_C



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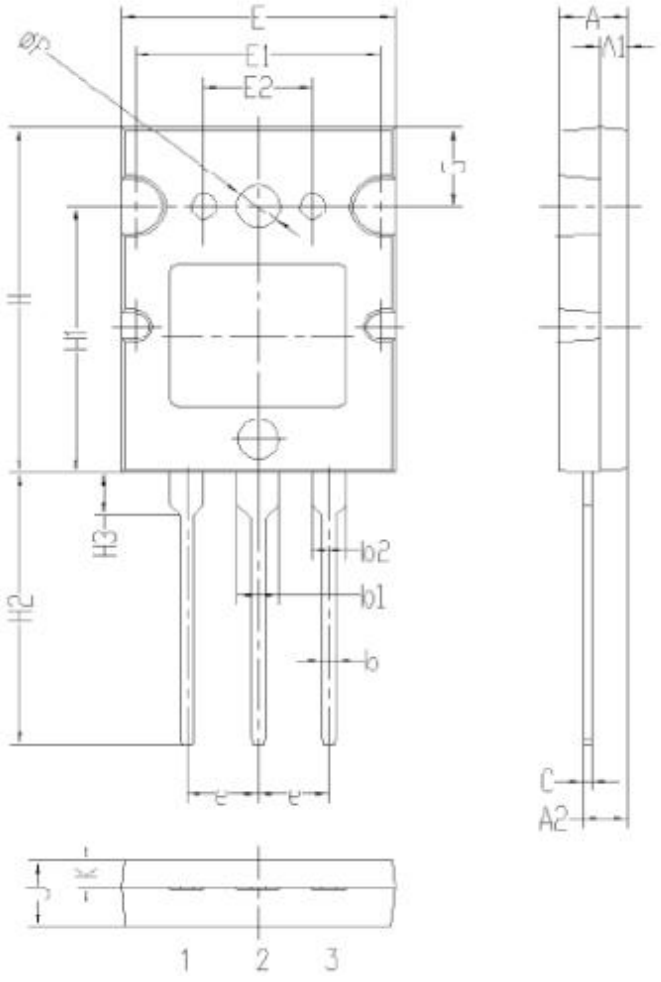
Package Information

TO-3PL PACKAGE



	单位 mm		
	MIN	NOM	MAX
A	4.8	5	5.2
A1	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
ØP	3.1	3.3	3.5
J	4.8	5	5.2
K	1.8	2	2.2