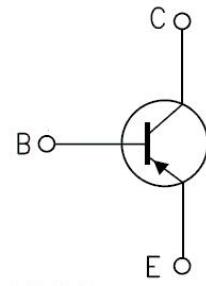
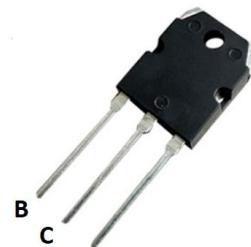


Power Amplifier Applications

- Complementary to 2SC5198
- High collector voltage: V_{CEO}=-140V (min)
- 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-3PS

Absolute Maximum Ratings($T_c=25^\circ\text{C}$):

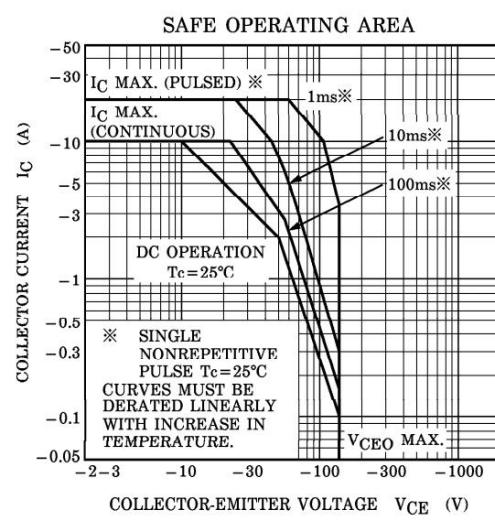
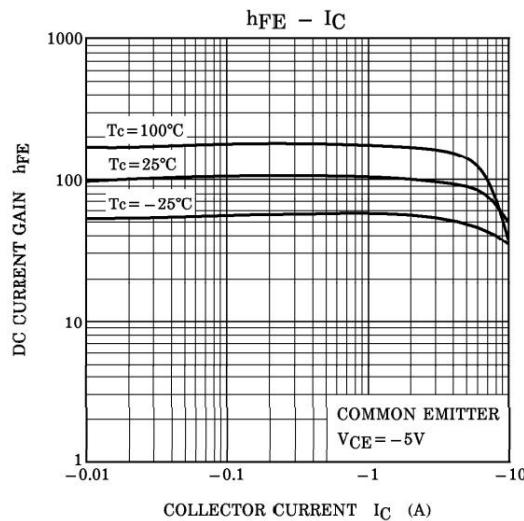
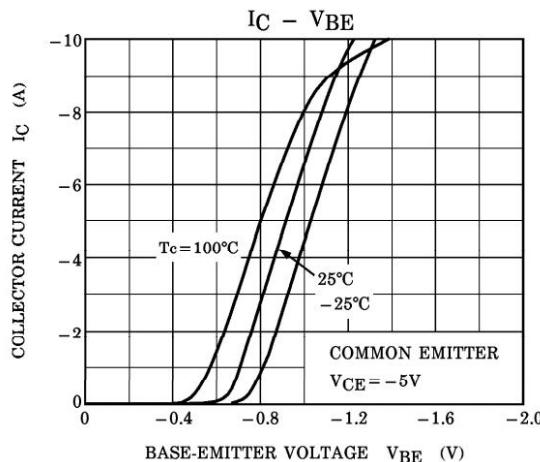
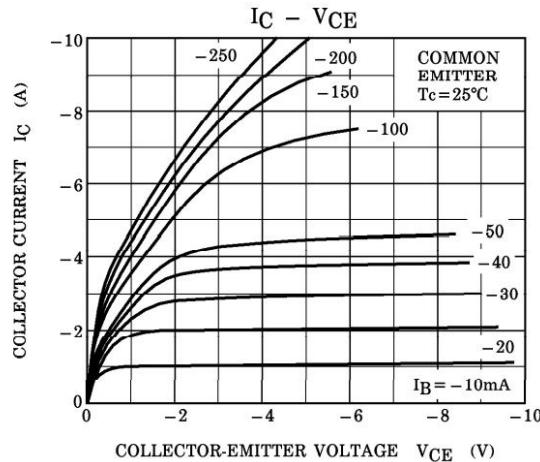
Characteristics	Symbol	Rating	Unit
Collector-base voltage	V _{CBO}	-140	V
Collector-emitter voltage	V _{C EO}	-140	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _C	-10	A
Base current	I _B	-1	A
Collector power dissipation ($T_c=25^\circ\text{C}$)	P _C	100	W
Junction temperature	T _j	150	°C
Storage temperature range	T _{STG}	-55~150	°C

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

Characteristics	Symbol	Test Condition	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB}=-140\text{V}; I_E=0$			-5.0	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5\text{V}; I_c=0$			-5.0	μA
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_c=-50\text{mA}; I_B=0$	-140			V
DC current gain	h_{FE}	$I_c=-1\text{A}; V_{CE}=-5\text{V}$	55		160	
	$h_{FE(2)}$	$I_c=-5\text{A}; V_{CE}=-5\text{V}$	35	83		
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_c=-8\text{A}; I_B=-0.8\text{A}$		-0.8	-2.5	V
Base-emitter voltage	V_{BE}	$V_{CE}=-5\text{V}; I_c=-5\text{A}$		-1.0	-1.5	V
Transition frequency	f_T	$V_{CE}=-5\text{V}; I_c=-1\text{A}$		30		MHz

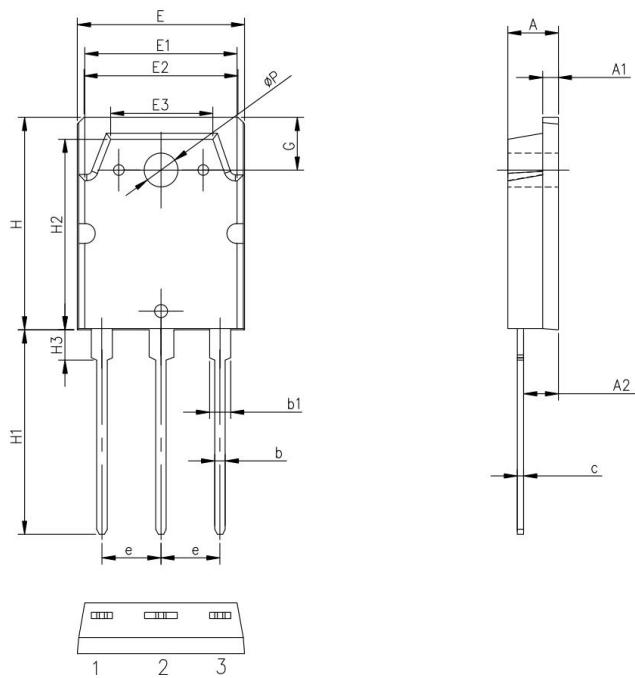
Symbol	Paramter	Typ	Units
R_{JJC}	Junction-to-Case	0.35	$^\circ\text{C}/\text{W}$

TYPICAL CHARACTERISTICS



Package Information

TO-3PS PACKAGE



Symbol	单位 mm		
	Min	Nom	Max
A	4.30	4.50	4.70
A1	1.3	1.5	1.7
A2	2.50	2.70	2.90
b	0.80	1.0	1.20
b1	1.80	2.00	2.20
c	0.50	0.60	0.70
e	5.25	5.45	5.65
E	15.1	15.5	15.9
E1	13.1	13.3	13.5
E2	13.2	13.4	13.6
E3	9.1	9.3	9.5
H	19.8	20.0	20.2
H1	20.0	20.5	21.0
H2	18.3	18.5	18.7
H3	2.8	3.0	3.2
G	4.30	4.50	4.70
ØP	3.00	3.20	3.40