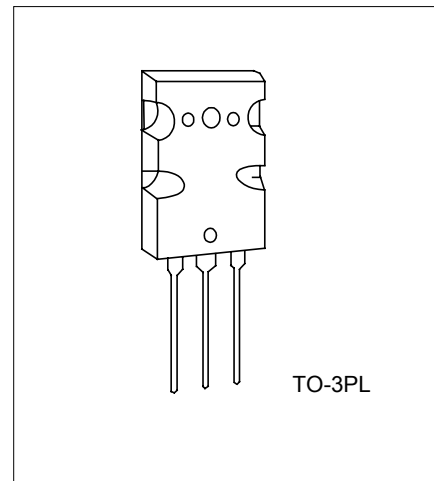


## POWER AMPLIFIER APPLICATIONS

## FEATURES

- \* Complementary to UTC 2SC5200
- \* Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.



1:BASE 2:COLLECTOR 3:EMITTER  
\*Pb-free plating product number:2SA1943L

## ABSOLUTE MAXIMUM RATINGS

( $T_C = 25^\circ\text{C}$ )

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	$V_{CBO}$	-230	V
Collector-Emitter Voltage	$V_{CEO}$	-230	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-15	A
Base Current	$I_B$	-1.5	A
Collector Power Dissipation ( $T_C=25^\circ\text{C}$ )	$P_C$	150	W
Junction Temperature	$T_J$	0 ~ +125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 ~ +125	$^\circ\text{C}$

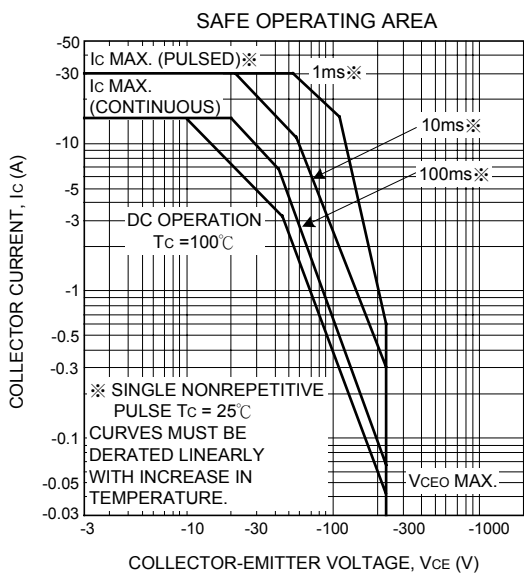
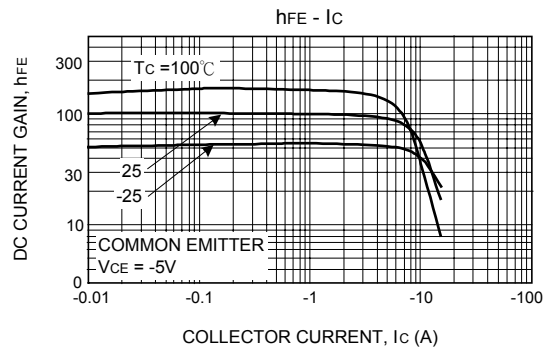
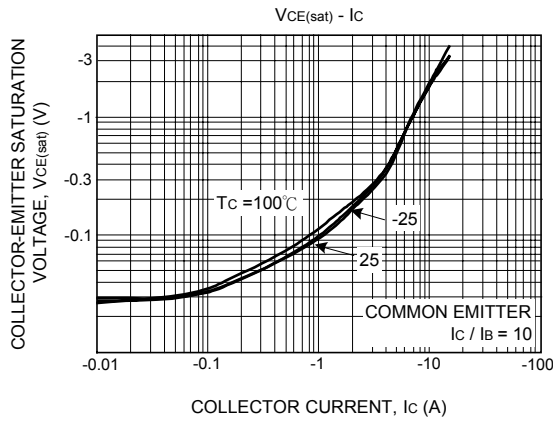
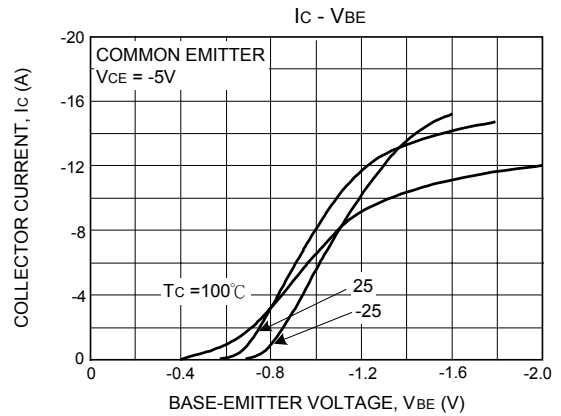
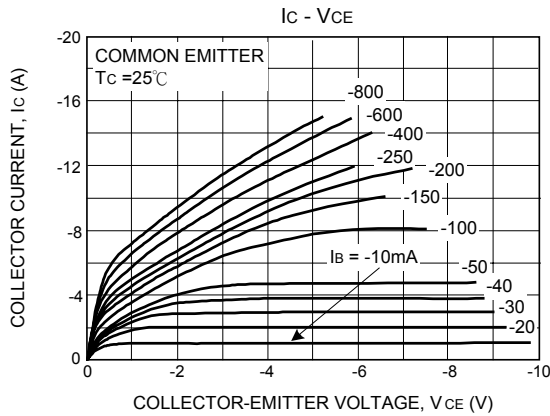
## ELECTRICAL CHARACTERISTICS

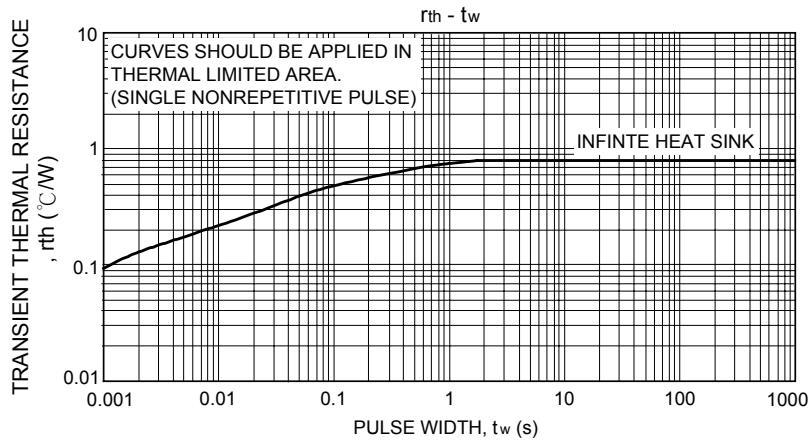
( $T_a=25^\circ\text{C}$ )

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -230\text{V}, I_E=0$			-5.0	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C=0$			-5.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B=0$	-230			V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55		160	
	$h_{FE(2)}$	$V_{CE} = -5\text{V}, I_C = -7\text{A}$	35	60		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -8\text{A}, I_B = -0.8\text{A}$		-1.5	-3.0	V
Base -Emitter Voltage	$V_{BE}$	$V_{CE} = -5\text{V}, I_C = -7\text{A}$		-1.0	-1.5	V
Transition Frequency	fT	$V_{CE} = -5\text{V}, I_C = -1\text{A}$		30		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10\text{V}, I_E=0, f=1\text{MHz}$		360		pF

Note:  $h_{FE(1)}$  Classification, R : 55 ~ 110, O : 80 ~ 160

TYPICAL CHARACTERISTICS





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