



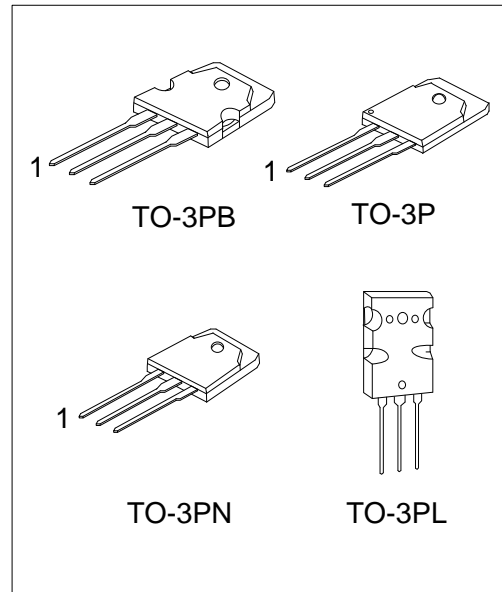
2SA1943

PNP SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS

FEATURES

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



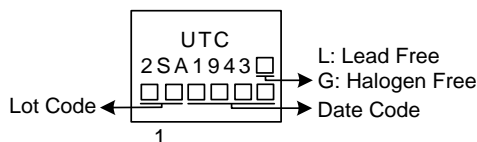
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SA1943L-x-T3P-T	2SA1943G-x-T3P-T	TO-3P	B	C	E	Tube
2SA1943L-x-T3B-T	2SA1943G-x-T3B-T	TO-3PB	B	C	E	Tube
2SA1943L-x-T3L-T	2SA1943G-x-T3L-T	TO-3PL	B	C	E	Tube
2SA1943L-x-T3N-T	2SA1943G-x-T3N-T	TO-3PN	B	C	E	Tube

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>2SA1943G-x-T3P-T</p>	<p>(1) T: Tube (2) T3P: TO-3P, T3B: TO-3PB, T3L: TO-3PL T3L: TO-3PN (3) Refer to CLASSIFICATION OF h_{FE1} (4) G: Halogen Free and Lead Free, L: Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATING (T_C=25°C, unless otherwise specified)

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°C)	P _C	150	W
Junction Temperature	T _J	+150	°C
Storage Temperature Range	T _{STG}	-65 ~ +125	°C

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

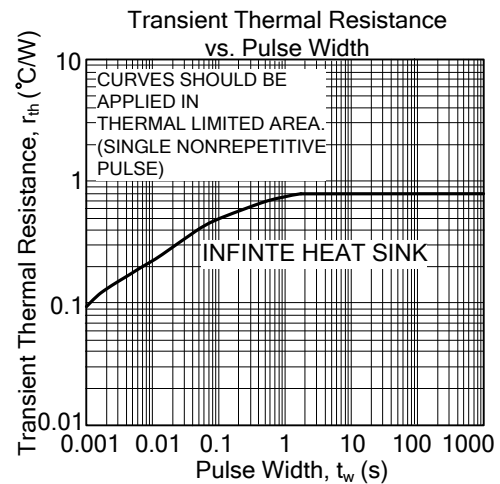
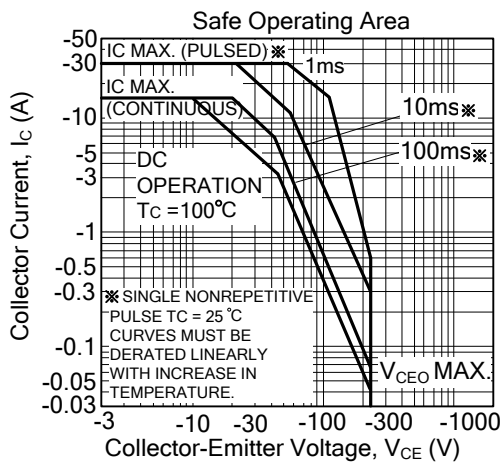
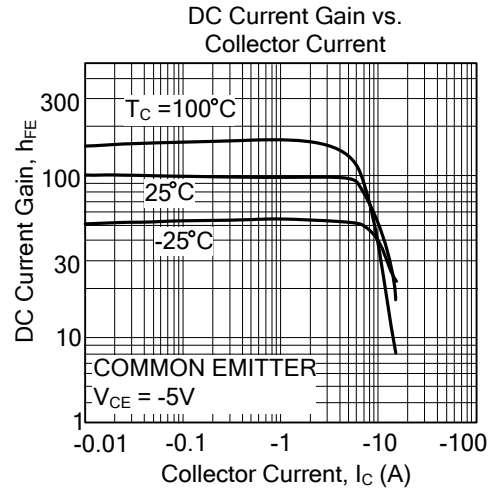
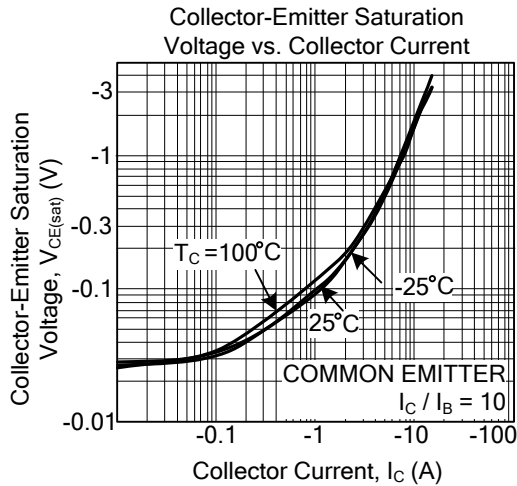
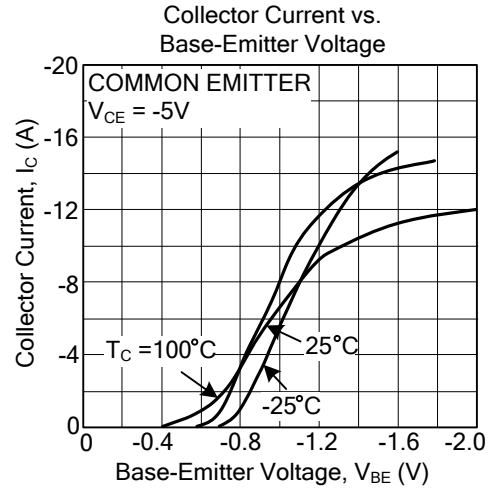
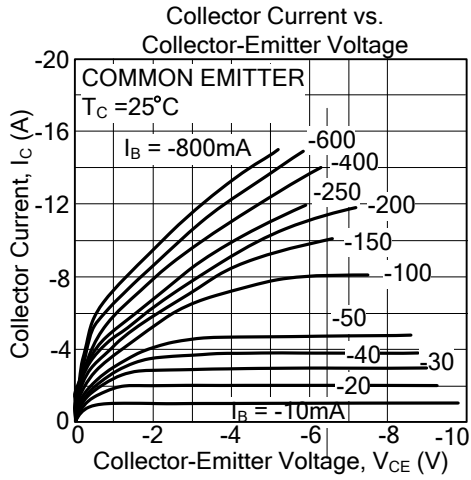
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	V _{CB} = -230V, I _E =0			-5.0	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = -5V, I _C =0			-5.0	μA
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	55		160	
	h _{FE}	V _{CE} = -5V, I _C = -7A	35	60		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = -8A, I _B = -0.8A		-1.5	-3.0	V
Base -Emitter Voltage	V _{BE}	V _{CE} = -5V, I _C = -7A		-1.0	-1.5	V
Transition Frequency	f _T	V _{CE} = -5V, I _C = -1A		30		MHz
Collector Output Capacitance	C _{ob}	V _{CB} = -10V, I _E =0, f=1MHz		360		pF

■ CLASSIFICATION OF h_{FE}

Rank	R	O
Range	55 ~ 110	80 ~ 160

TYPICAL CHARACTERISTICS



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