

UTC UNISONIC TECHNOLOGIES CO., LTD

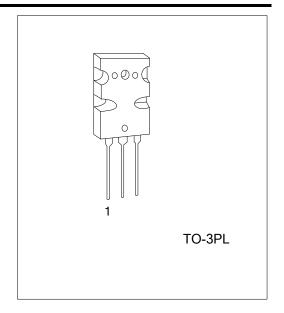
2SA1943

PNP SILICON TRANSISTOR

POWER AMPLIFIER **APPLICATIONS**

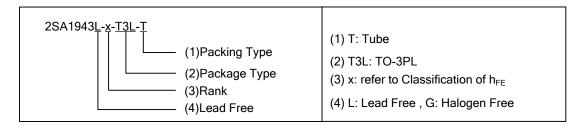
FEATURES

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



ORDERING INFORMATION

Ordering Number		Dealtage	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SA1943L-x-T3L-T	2SA1943G-x-T3L-T	TO-3PL	В	С	Е	Tube	



www.unisonic.com.tw 1 of 4 QW-R214-006,C

■ ABSOLUTE MAXIMUM RATING ($T_c = 25^{\circ}C$)

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	Α
Base Current	I _B	-1.5	Α
Collector Power Dissipation (Tc=25℃)	Pc	150	W
Junction Temperature	T _J	+150	°C
Storage Temperature Range	T _{STG}	-65 ~ +125	$^{\circ}\mathbb{C}$

- Note: 1. 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.
 - 2. The device is guaranteed to meet performance specification within 0° C \sim 70°C operating temperature range and assured by design from -20° C \sim 85°C

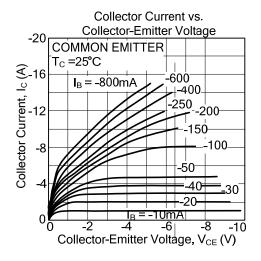
■ ELECTRICAL CHARACTERISTICS (Ta=25°C)

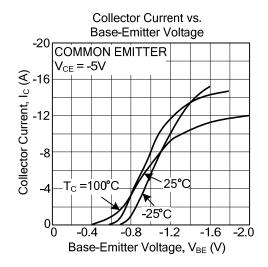
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	I _{CBO}	$V_{CB} = -230V, I_{E} = 0$			-5.0	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = -5V, I _C =0			-5.0	μΑ
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = -50mA, I_B =0	-230			V
DC Current Gain	h_{FE}	V_{CE} = -5V, 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} = -5 V , I_{C} = -1 A		30		MHz
Collector Output Capacitance	Cob	V_{CB} = -10V, I_E =0, f=1MHz		360		pF

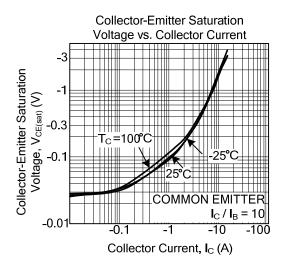
■ CLASSIFICATION OF h_{FE}

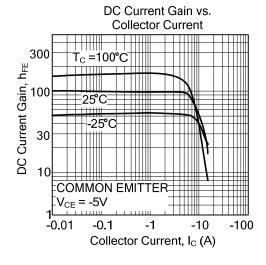
Rank	R	0
Range	55 ~ 110	80 ~ 160

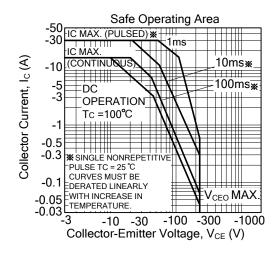
TYPICAL CHARACTERISTICS

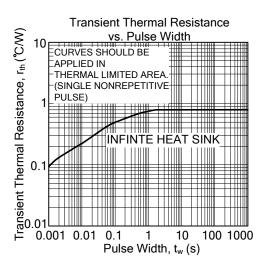












UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

