



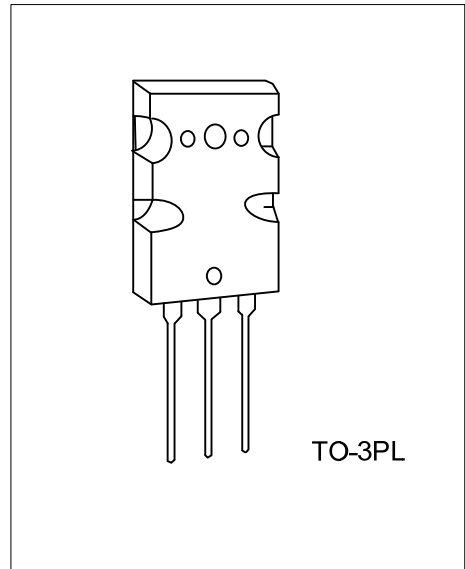
2SC5200

NPN EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS

■ **FEATURES**

- * Recommended for 100W High Fidelity Audio Frequency Amplifier Output Stage.
- * Complementary to UTC 2SA1943



■ **ORDERING INFORMATION**

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC5200-x-T3L-T	2SC5200-x-T3L-T	TO-3PL	B	C	E	Tube

<p>2SC5200L-x-T3L-T</p> <p>(1)Packing Type (2)Package Type (3)Rank (4)Lead Free</p>	<p>(1) T: Tube (2) T3L: TO-3PL (3) Lrefer to CLASSIFICATION OF h_{FE1} (4) L: Lead Free, G: Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATING (T_C=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CB0}	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}	-55 ~ 150	°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.

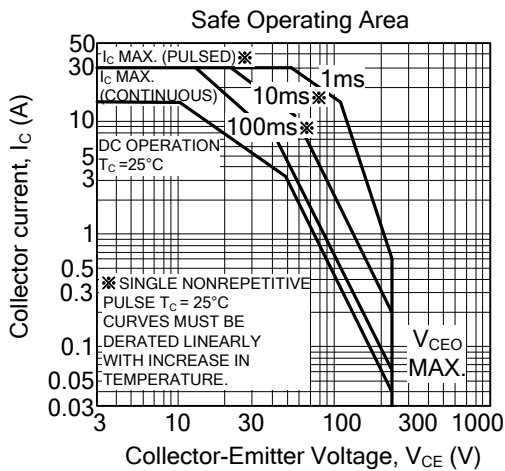
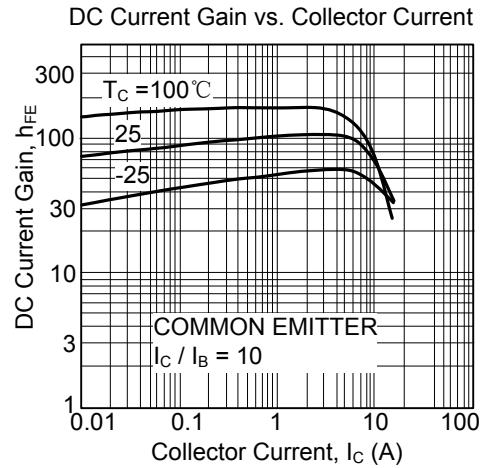
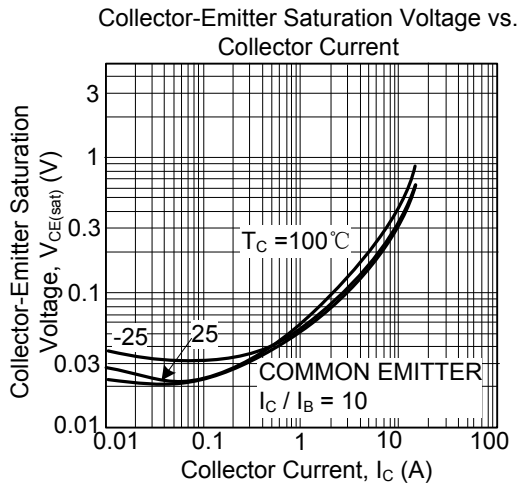
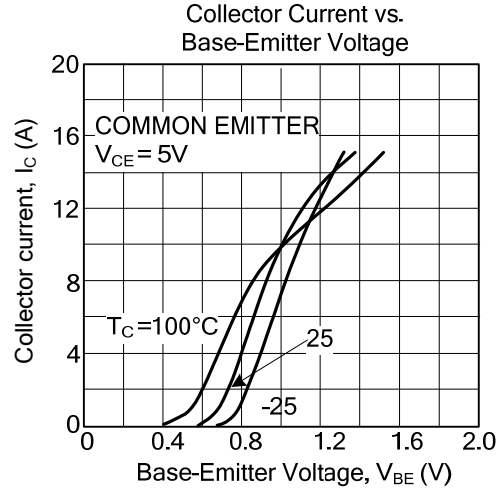
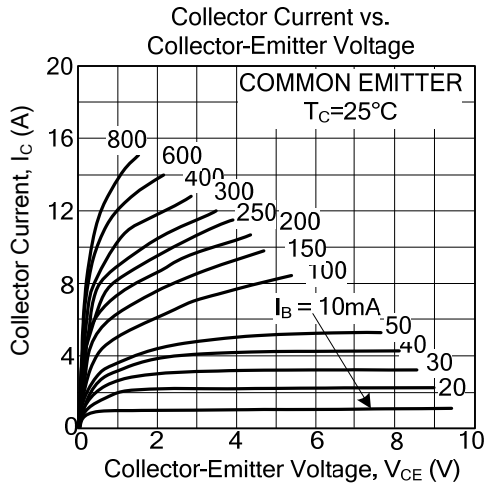
■ ELECTRICAL CHARACTERISTICS (T_C=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C = 50mA, I _B =0	230			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = 8A, I _B = 0.8A		0.4	3.0	V
Base -Emitter Voltage	V _{BE}	V _{CE} = 5V, I _C = 7A		1.0	1.5	V
Collector Cut-off Current	I _{CB0}	V _{CB} = 230V, I _E =0			5.0	μA
Emitter Cut-off Current	I _{EBO}	V _{EB} = 5V, I _C =0			5.0	μA
DC Current Gain	h _{FE1}	V _{CE} = 5V, I _C = 1A	55		160	
	h _{FE2}	V _{CE} = 5V, I _C = 7A	35	60		
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		200		pF

■ CLASSIFICATION OF h_{FE1}

RANK	R	O
Range	55 ~ 110	80 ~ 160

■ TYPICAL CHARACTERISTICS



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