

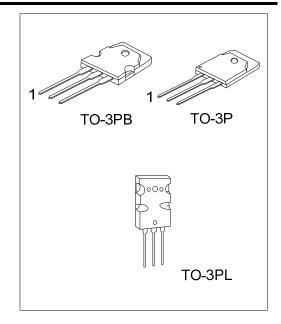
2SC5200

NPN EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS

FEATURES

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



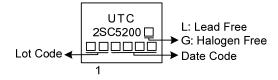
ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC5200L-x-T3P-T	2SC5200G-x-T3P-T	TO-3P	В	С	Е	Tube	
2SC5200L-x-T3B-T	2SC5200G-x-T3B-T	TO-3PB	В	С	Е	Tube	
2SC5200L-x-T3L-T	2SC5200G-x-T3L-T	TO-3PL	В	С	E	Tube	
Note: Pin Assignment: B: Base C: Collector E: Emitter							
2SC5200 <u>G</u> -x-T3P-T							
(1)Packing Type		(1) T: Tube					
(2)Package Type		(2) T3P: TO-3P, T3B: TO-3PB, T3L: TO-3PL					

(3) Rrefer to CLASSIFICATION OF h_{FE1}

(4) G: Halogen Free and Lead Free, L: Lead Free

MARKING



(3)Rank

(4)Green Package

■ 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	Ic	15	Α
Base Current	IB	1.5	Α
Collector Power Dissipation	Pc	150	W
Junction Temperature	TJ	+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, unless otherwise specified)

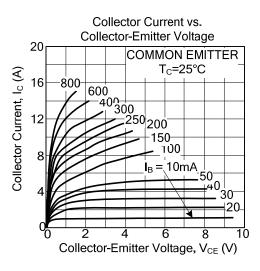
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	V _(BR) CEO	I _C = 50mA, I _B =0	230			V
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C = 8A, I _B = 0.8A		0.4	3.0	V
Base -Emitter Voltage	V _{BE}	V _{CE} = 5V, I _C = 7A		1.0	1.5	V
Collector Cut-off Current	I _{СВО}	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 Coin	h _{FE1}	V _{CE} = 5V, I _C = 1A	55		160	
DC Current Gain	h _{FE2}	V _{CE} = 5V, I _C = 7A	35	60		
Transition Frequency	f⊤	V _{CE} = 5V, I _C = 1A		30		MHz
Collector Output Capacitance	Сов	V _{CB} = 10V, I _E =0, f=1MHz		200		pF

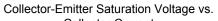
CLASSIFICATION OF h_{FE1}

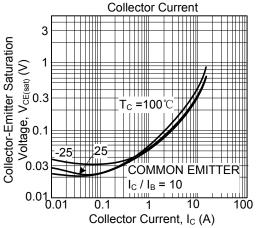
RANK	R	0
Range	55 ~ 110	80 ~ 160

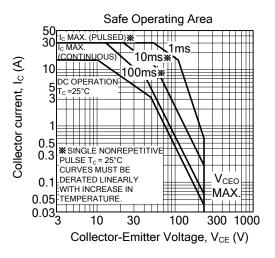


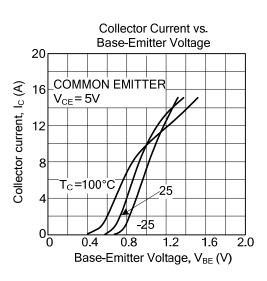
TYPICAL CHARACTERISTICS



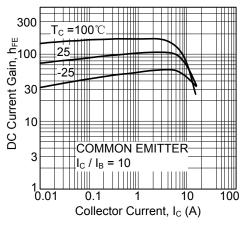








DC Current Gain vs. Collector Current



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