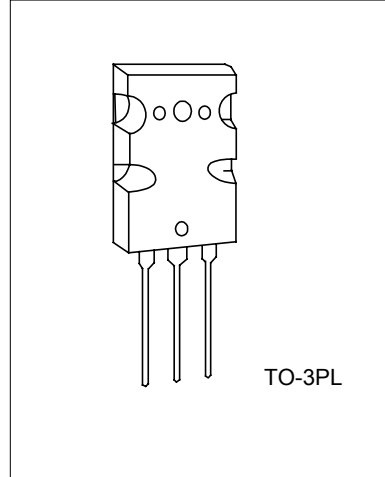


UTC 2SC5200 NPN EPITAXIAL SILICON TRANSISTOR

POWER AMPLIFIER APPLICATIONS

FEATURES

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



*Pb-free plating product number: 2SC5200L

ABSOLUTE MAXIMUM RATINGS (T_C = 25°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°C)	P _C	150	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

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		0.40	3.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} = 5V, I _C = 7A		1.0	1.5	V
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
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

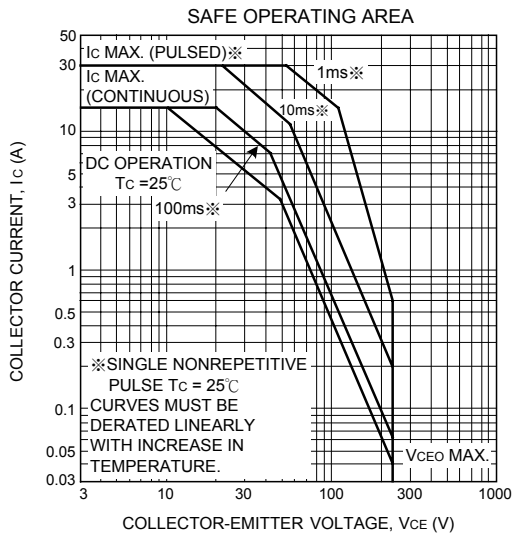
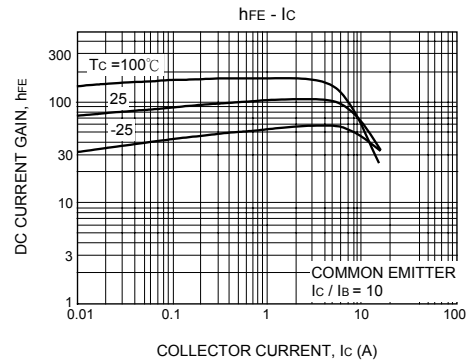
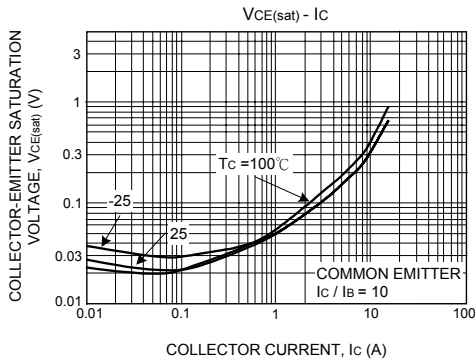
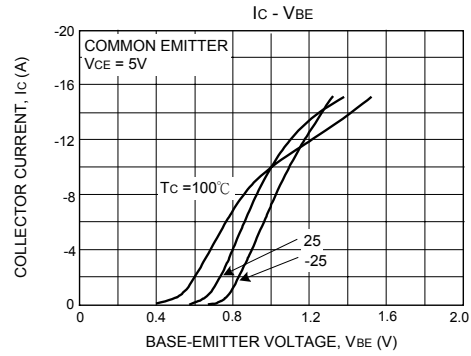
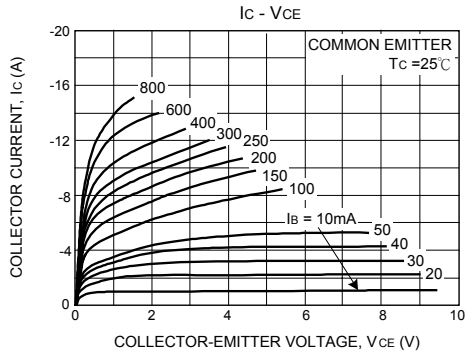
Note: h_{FE} (1) Classification, R : 55 ~ 110, O : 80 ~ 160

CLASSIFICATION OF HFE1

RANK	R	O
Range	55 ~ 110	80 ~ 160

UTC 2SC5200 NPN EPITAXIAL SILICON TRANSISTOR

TYPICAL CHARACTERISTICS



UTC 2SC5200 NPN EPITAXIAL SILICON TRANSISTOR

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