



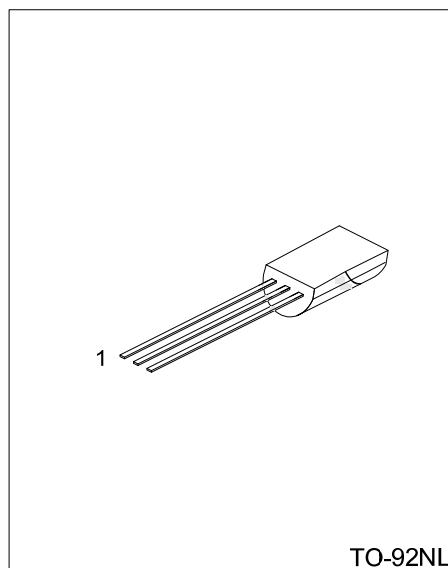
2SC2235

NPN SILICON TRANSISTOR

AUDIO POWER AMPLIFIER
APPLICATIONS DRIVER STAGE
AMPLIFIER APPLICATIONS

■ FEATURES

* Complimentary to UTC 2SA965



TO-92NL

Lead-free: 2SC2235L

Halogen-free: 2SC2235G

■ ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen Free		1	2	3	
2SC2235-x-T9N-B	2SC2235L-x-T9N-B	2SC2235G-x-T9N-B	TO-92NL	E	C	B	Tape Box
2SC2235-x-T9N-K	2SC2235L-x-T9N-K	2SC2235G-x-T9N-K	TO-92NL	E	C	B	Bulk

2SC2235L-x-T9N-B (1) Packing Type (2) Package Type (3) Rank (4) Lead Plating	(1) B: Tape Box, K: Bulk (2) T9N: TO-92NL (3) x: refer to Classification of h_{FE} (4) G: Halogen Free, L: Lead Free, Blank: Pb/Sn
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■ ABSOLUTE MAXIMUM RATING (Ta=25°C ,unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V_{CBO}	120	V
Collector-Emitter Voltage	V_{CEO}	120	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Emitter Current	I_E	-800	mA
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_J	150	°C
Storage Temperature	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.

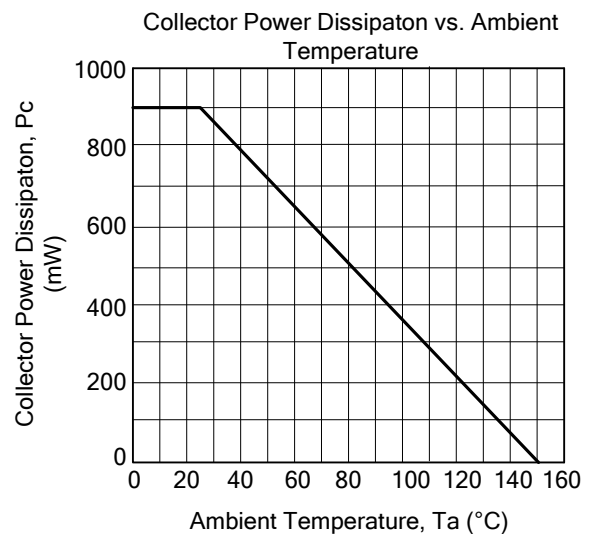
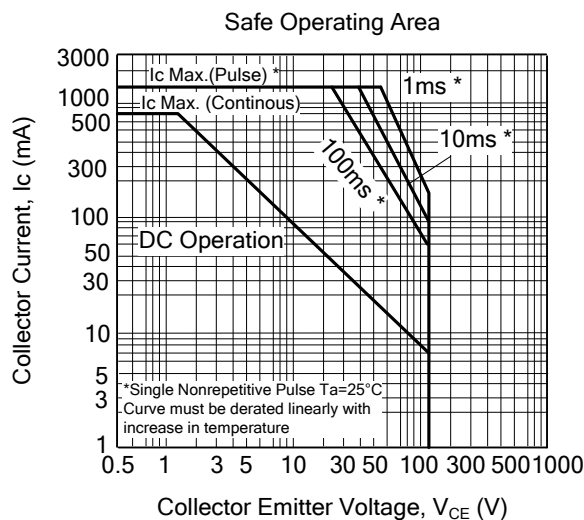
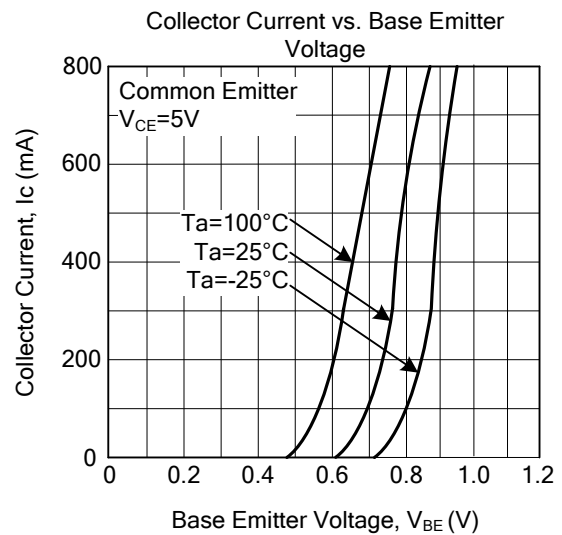
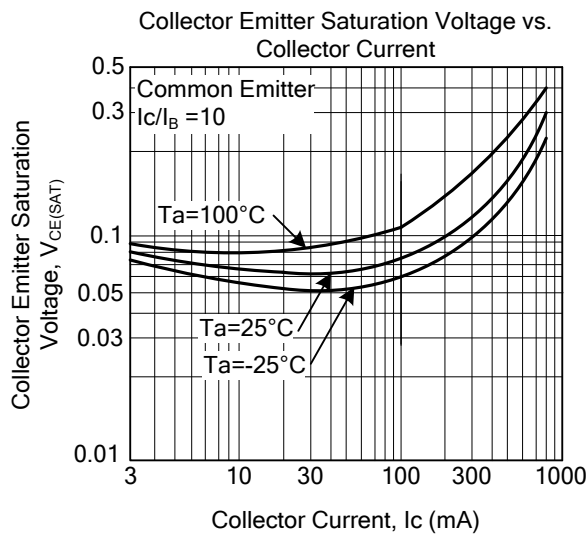
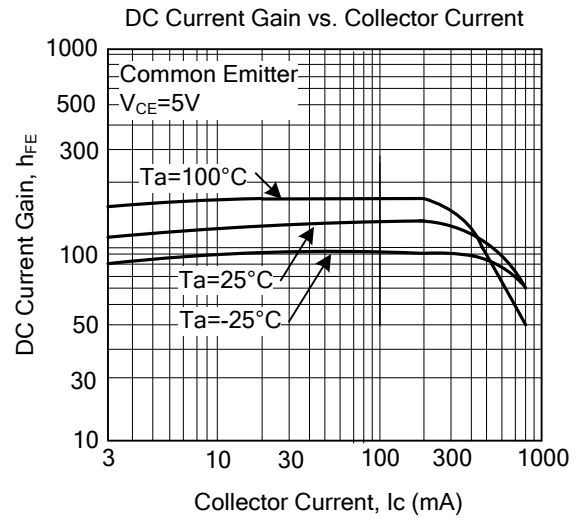
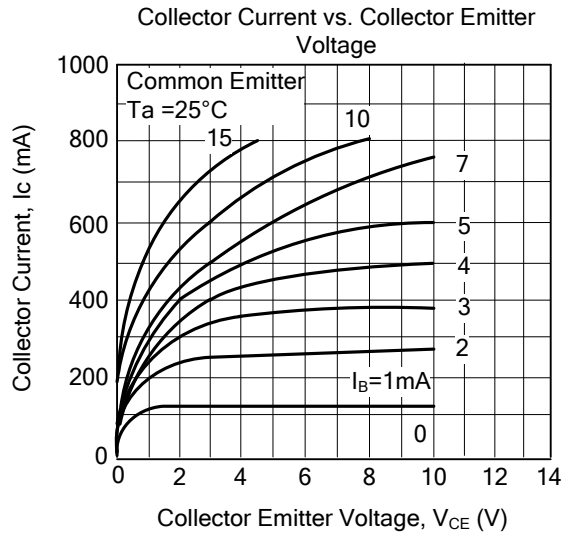
■ ELECTRICAL CHARACTERISTICS (Ta=25°C,unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	$V_{B_{CEO}}$	$I_C = 10\text{mA}, I_B = 0$	120			V
Emitter-Base Breakdown Voltage	$V_{B_{EBO}}$	$I_E = 1\text{mA}, I_C = 0$	5			V
Collector Cut-off Current	I_{CBO}	$V_{CB} = 120\text{V}, I_E = 0$			100	nA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			100	nA
DC Current Gain	h_{FE}	$V_{CE} = 5\text{V}, I_C = 100\text{mA}$	80		240	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$			1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 5\text{V}, I_C = 500\text{mA}$			1.0	V
Transition Frequency	f_T	$V_{CE} = 5\text{V}, I_C = 100\text{mA}$		120		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$			30	pF

■ CLASSIFICATION OF h_{FE}

RANK	Y	O
RANGE	120-240	80-160

TYPICAL CHARACTERISTICS



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