



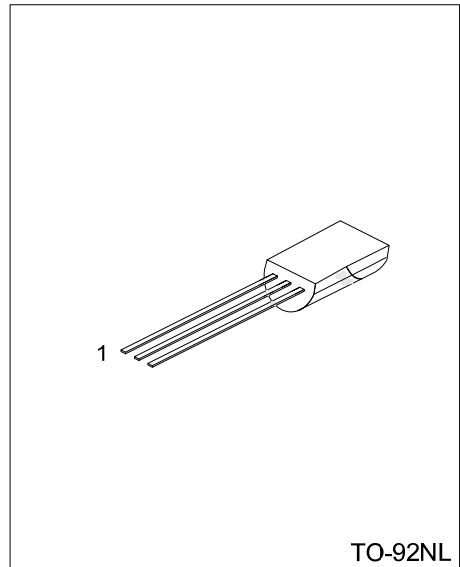
2SC2235

NPN SILICON TRANSISTOR

AUDIO POWER AMPLIFIER
APPLICATIONS DRIVER STAGE
AMPLIFIER APPLICATIONS

■ FEATURES

* Complimentary to UTC 2SA965



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

<p>2SC2235L-x-T9N-B</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Lead Plating</p>	<p>(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</p>
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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.

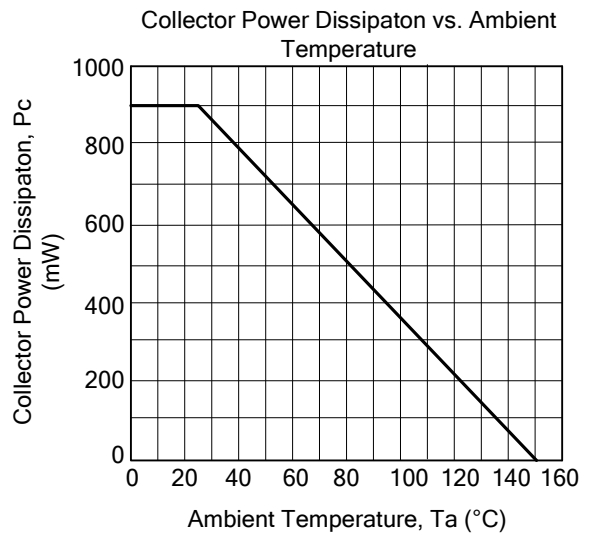
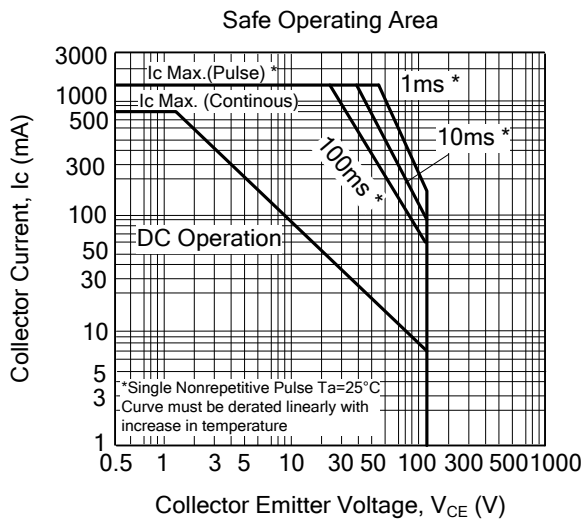
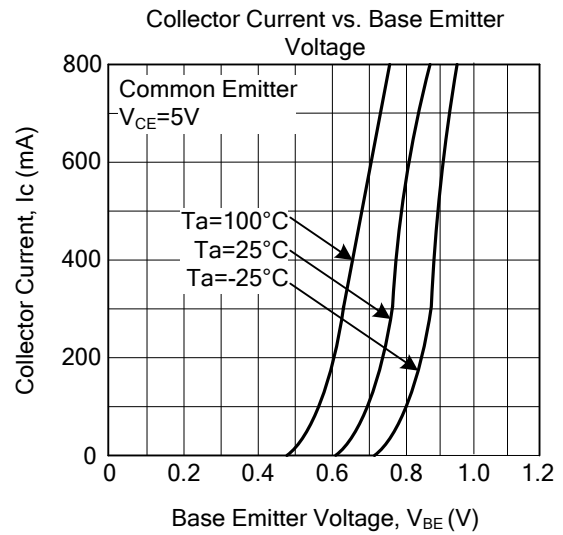
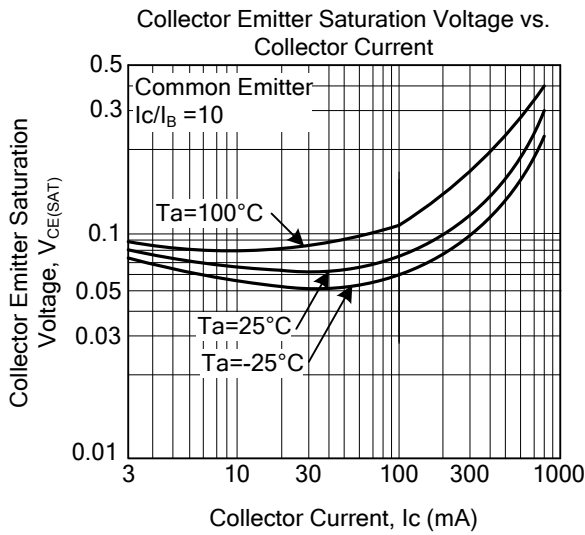
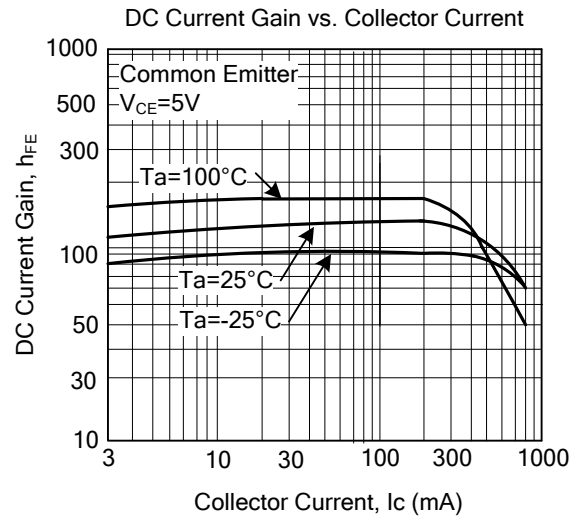
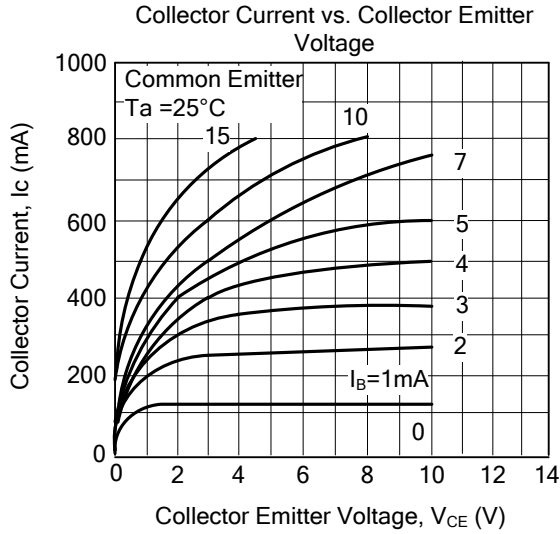
■ ELECTRICAL CHARACTERISTICS (Ta=25°C,unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	V _{BCEO}	I _C =10mA, I _B =0	120			V
Emitter-Base Breakdown Voltage	V _{BEBO}	I _E =1mA, I _C =0	5			V
Collector Cut-off Current	I _{CBO}	V _{CB} =120V, I _E =0			100	nA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0			100	nA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =100mA	80		240	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =500mA, I _B =50mA			1.0	V
Base-Emitter Voltage	V _{BE}	V _{CE} =5V, I _C =500mA			1.0	V
Transition Frequency	f _T	V _{CE} =5V, I _C =100mA		120		MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			30	pF

■ CLASSIFICATION OF hFE

RANK	Y	O
RANGE	120-240	80-160

■ TYPICAL CHARACTERISTICS



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