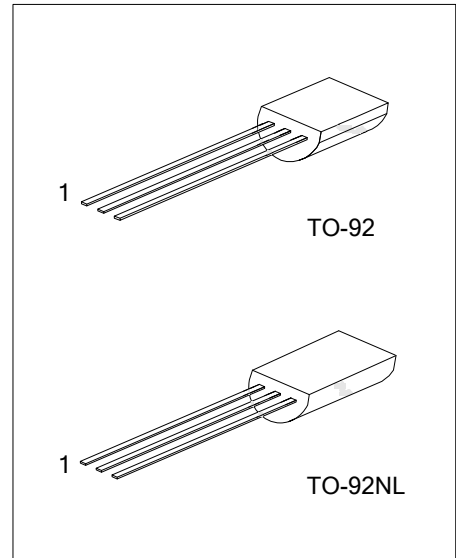




2SC2235

NPN SILICON TRANSISTOR

AUDIO POWER AMPLIFIER
APPLICATIONS DRIVER STAGE
AMPLIFIER APPLICATIONS



■ FEATURES

* Complimentary to UTC 2SA965

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC2235L-x-T92-B	2SC2235G-x-T92-B	TO-92	E	C	B	Tape Box
2SC2235L-x-T92-K	2SC2235G-x-T92-K	TO-92	E	C	B	Bulk
2SC2235L-x-T92-R	2SC2235G-x-T92-R	TO-92	E	C	B	Tape Reel
2SC2235L-x-T9N-B	2SC2235G-x-T9N-B	TO-92NL	E	C	B	Tape Box
2SC2235L-x-T9N-K	2SC2235G-x-T9N-K	TO-92NL	E	C	B	Bulk
2SC2235L-x-T9N-R	2SC2235G-x-T9N-R	TO-92NL	E	C	B	Tape Reel

Note: Pin Assignment: B: BASE C: COLLECTOR E: EMITTE

<p>2SC2235L-x-T92-B</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Lead Plating</p>	<p>(1) B: Tape Box, K: Bulk, R: Tape Reel (2) T92: TO-92, T9N: TO-92NL (3) x: refer to Classification of h_{FE} (4) L: Lead Free, G: Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATING ($T_A=25^{\circ}\text{C}$, 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}	600	mW
Junction Temperature	T_{J}	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$

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.

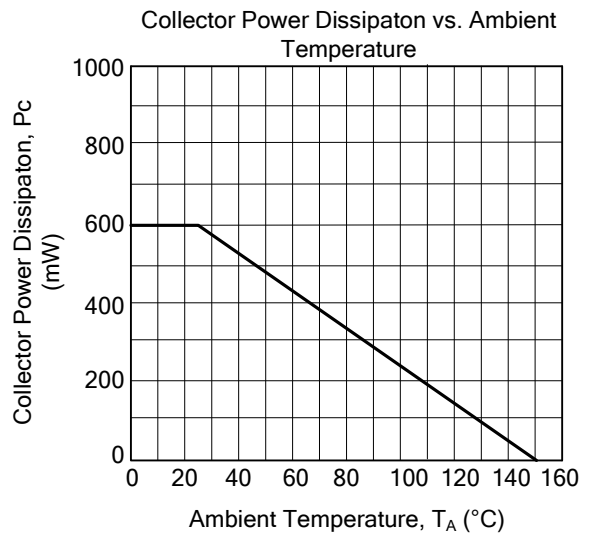
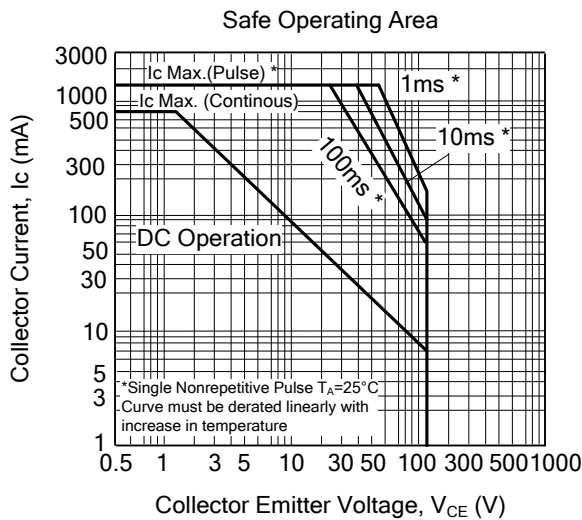
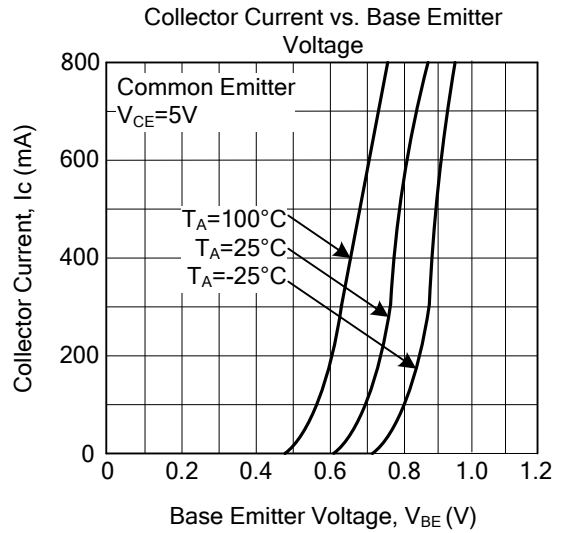
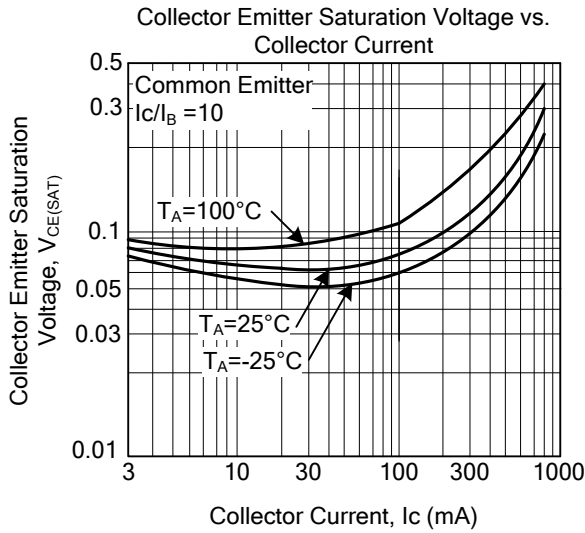
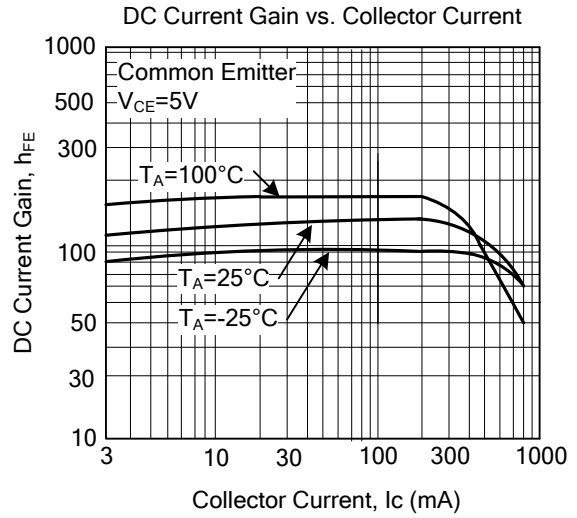
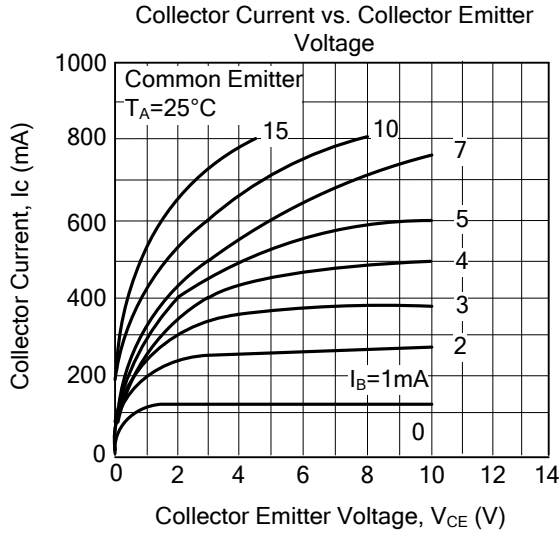
■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

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

■ CLASSIFICATION OF h_{FE}

RANK	Y	O
RANGE	120-240	80-160

■ TYPICAL CHARACTERISTICS



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