



2SD667

NPN SILICON TRANSISTOR

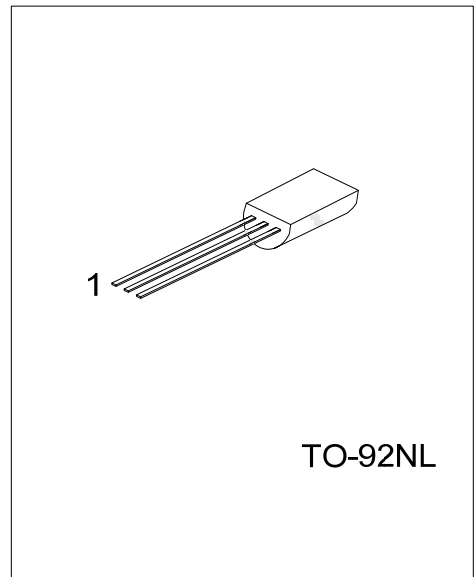
SILICON NPN EPITAXIAL

DESCRIPTION

The UTC **2SD667** is a NPN epitaxial silicon transistor, which can be used as a low frequency power amplifier.

FEATURES

- * Low frequency power amplifier
- * Halogen Free



ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
2SD667G-T9N-B	TO-92NL	E	C	B	Tape Box
2SD667G-T9N-K	TO-92NL	E	C	B	Bulk

<p>2SD667G-T9N-B</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Halogen Free</p>	<p>(1) B: Tape Box, K: Bulk</p> <p>(2) T9N: TO-92NL</p> <p>(3) G: Halogen Free</p>
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■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V_{CBO}	120	V
Collector to Emitter Voltage	V_{CEO}	100	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	I_C	1.0	A
Collector Peak Current (Note2)	I_{CP}	2.0	A
Collector Power Dissipation	P_C	0.9	W
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

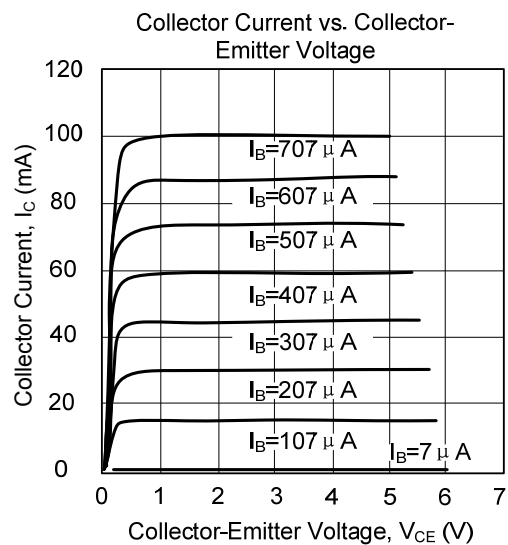
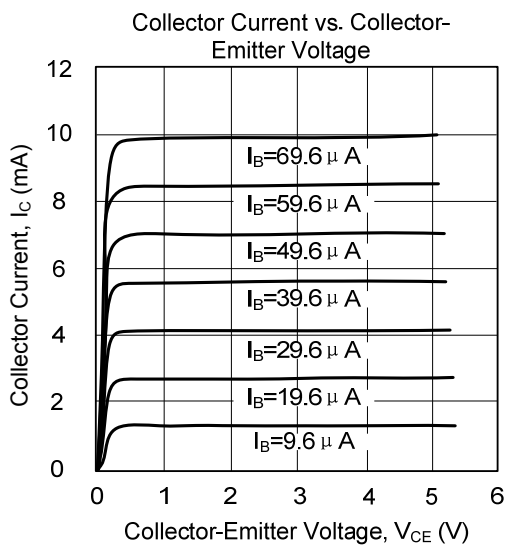
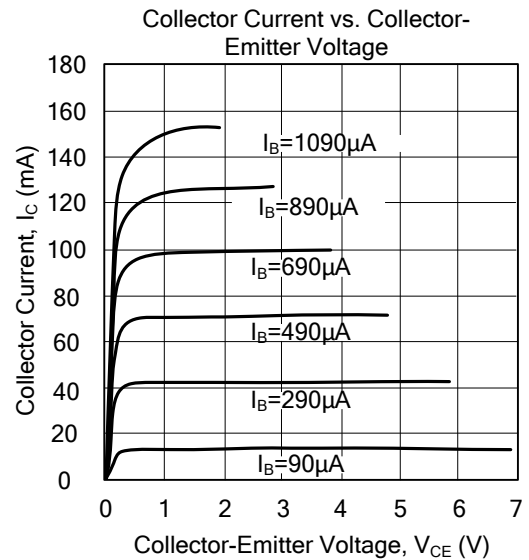
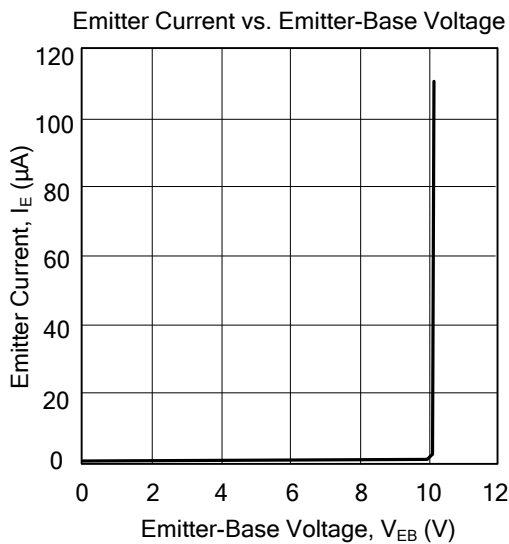
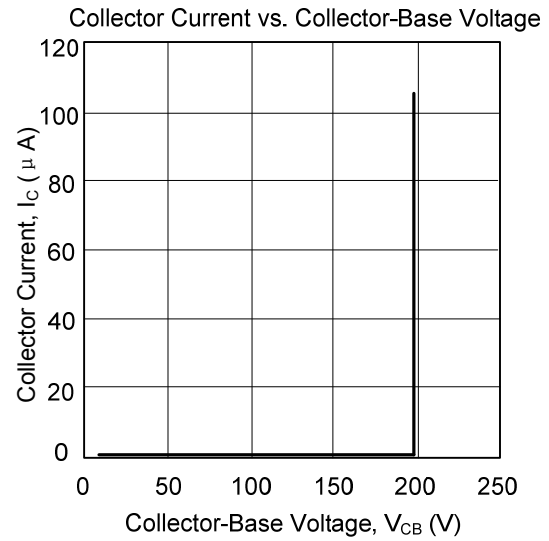
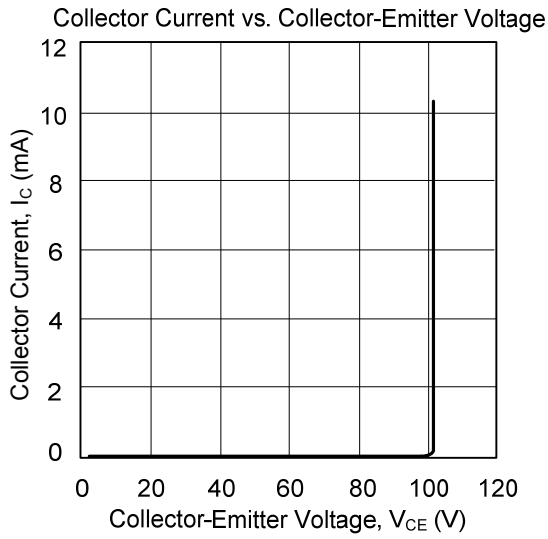
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. $PW \leq 10ms$, Duty cycle $\leq 20\%$

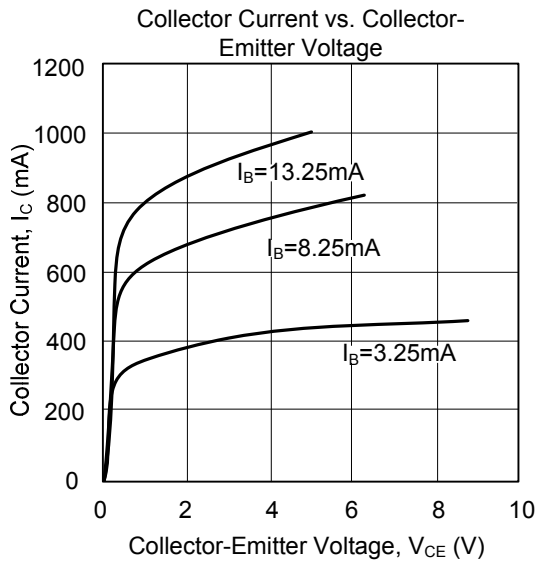
■ ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector to Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	120			V
Collector to Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, R_{BE}=\infty$	100			V
Emitter to Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	6			V
Collector Cutoff Current	I_{CBO}	$V_{CB}=120V, I_E=0$			500	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=6V, I_C=0$			500	nA
DC Current Transfer Ratio	h_{FE1}	$V_{CE}=2V, I_C=150mA$	140		330	
	h_{FE2}	$V_{CE}=5V, I_C=1A$	40			
Collector to Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=500mA, I_B=50mA$			0.5	V
Base to Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=500mA, I_B=50mA$			1.1	V

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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