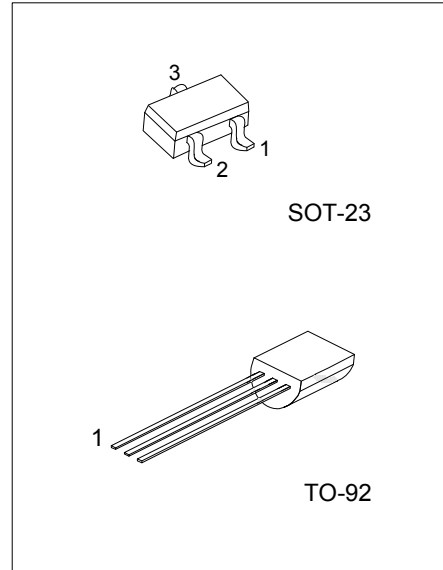




8550S

PNP SILICON TRANSISTOR

LOW VOLTAGE HIGH
CURRENT SMALL SIGNAL
PNP TRANSISTOR



■ DESCRIPTION

The UTC **8550S** is a low voltage high current small signal PNP transistor, designed for Class B push-pull audio amplifier and general purpose applications.

■ FEATURES

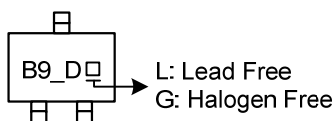
- *Collector current up to 700mA
- *Collector-Emitter voltage up to 20 V
- *Complimentary to 8050S

■ ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen-Free		1	2	3	
8550S-x-AE3-R	8550SL-x-AE3-R	8550SG-x-AE3-R	SOT-23	E	B	C	Tape Reel
8550S-x-T92-B	8550SL-x-T92-B	8550SG-x-T92-B	TO-92	E	C	B	Tape Box
8550S-x-T92-K	8550SL-x-T92-K	8550SG-x-T92-K	TO-92	E	C	B	Bulk

<p>8550SL-x-AE3-R</p>	<p>(1) B: Tape Box, K: Bulk, R: Tape Reel</p> <p>(2) AE3: SOT-23, T92: TO-92</p> <p>(3) x: refer to Classification of h_{FE2}</p> <p>(4) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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■ MARKING (For SOT-23 Package)



■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER		SYMBOL	RATING	UNITS
Collector-Base Voltage		V_{CB0}	-30	V
Collector-Emitter Voltage		V_{CE0}	-20	V
Emitter-Base Voltage		V_{EB0}	-5	V
Collector Current		I_C	-700	mA
Collector Dissipation(Ta=25°C)	SOT-23	P_C	350	mW
	TO-92		1	W
Junction Temperature		T_J	+150	°C
Storage Temperature		T_{STG}	-40 ~ +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.

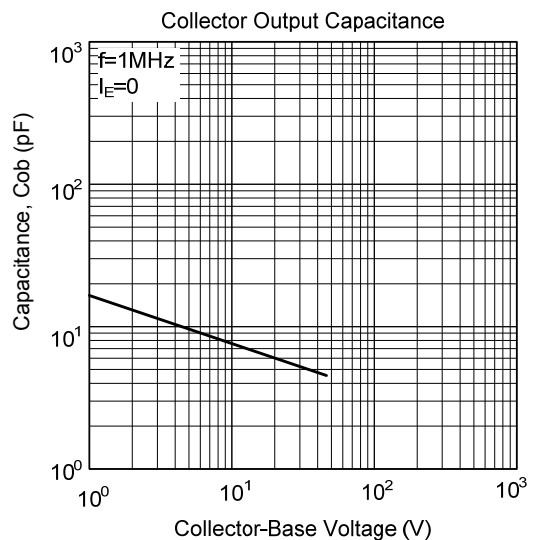
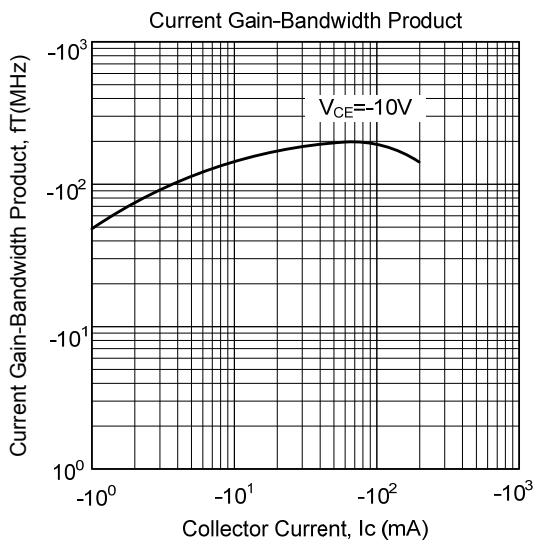
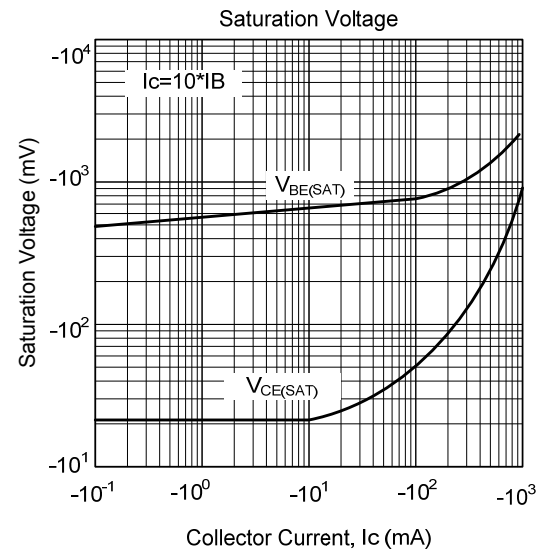
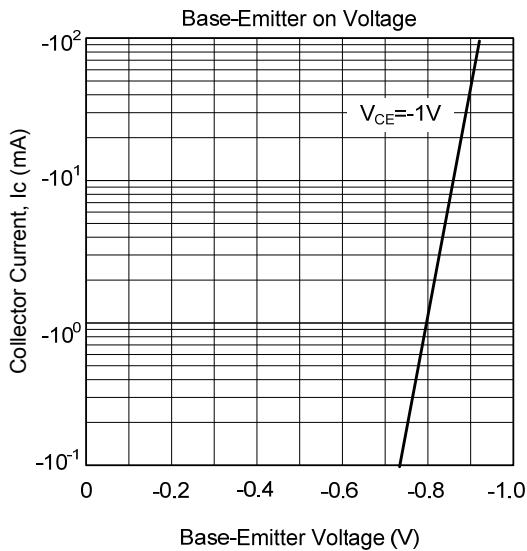
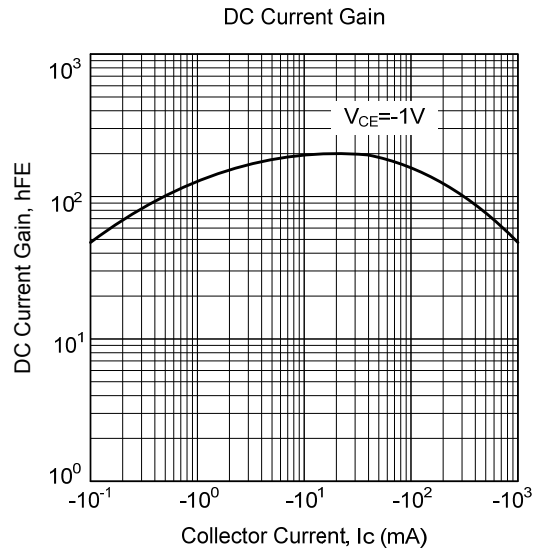
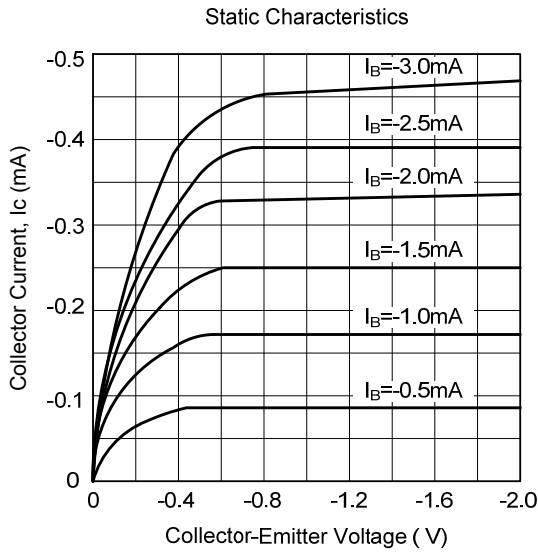
■ ELECTRICAL CHARACTERISTICS (Ta= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CB0}	$I_C=-100\mu A, I_E=0$	-30			V
Collector-Emitter Breakdown Voltage	BV_{CE0}	$I_C=-1mA, I_B=0$	-20			V
Emitter-Base Breakdown Voltage	BV_{EB0}	$I_E=-100\mu A, I_C=0$	-5			V
Collector Cut-off Current	I_{CBO}	$V_{CB}=-30V, I_E=0$			-1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=-5V, I_C=0$			-100	nA
DC Current Gain	h_{FE1}	$V_{CE}=-1V, I_C=-1mA$	100			
	h_{FE2}	$V_{CE}=-1V, I_C=-150mA$	120		400	
	h_{FE3}	$V_{CE}=-1V, I_C=-500mA$	40			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=-500mA, I_B=-50mA$			-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=-500mA, I_B=-50mA$			-1.2	V
Base-Emitter Saturation Voltage	V_{BE}	$V_{CE}=-1V, I_C=-10mA$			-1.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=-10V, I_C=-50mA$	100			MHz
Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		9.0		pF

■ CLASSIFICATION OF h_{FE2}

RANK	C	D	E
RANGE	120-200	160-300	280-400

■ TYPICAL CHARACTERISTICS



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