



HE8550

PNP SILICON TRANSISTOR

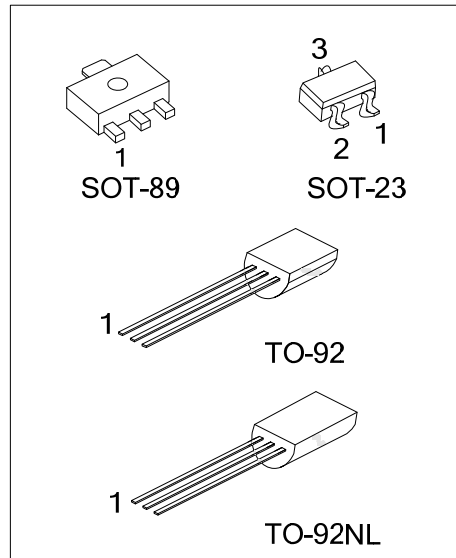
LOW VOLTAGE HIGH CURRENT SMALL SIGNAL PNP TRANSISTOR

DESCRIPTION

The UTC **HE8550** is a low voltage high current small signal PNP transistor, designed for Class B push-pull 2W audio amplifier for portable radio and general purpose applications.

FEATURES

- * Collector Current up to 1.5A
- * Collector-Emitter Voltage up to 25V
- * Complimentary to UTC **HE8050**

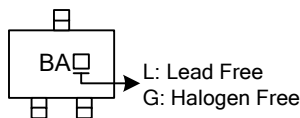


ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free	Halogen Free		1	2	3	
HE8550-x-AB3-R	HE8550L-x-AB3-R	HE8550G-x-AB3-R	SOT-89	B	C	E	Tape Reel
HE8550-x-AE3-R	HE8550L-x-AE3-R	HE8550G-x-AE3-R	SOT-23	E	B	C	Tape Reel
HE8550-x-T92-B	HE8550L-x-T92-B	HE8550G-x-T92-B	TO-92	E	C	B	Tape Box
HE8550-x-T92-K	HE8550L-x-T92-K	HE8550G-x-T92-K	TO-92	E	C	B	Bulk
HE8550-x-T9N-B	HE8550L-x-T9N-B	HE8550G-x-T9N-B	TO-92NL	E	C	B	Tape Box
HE8550-x-T9N-K	HE8550L-x-T9N-K	HE8550G-x-T9N-K	TO-92NL	E	C	B	Bulk

<p>HE8550L-x-AE3-R</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) AB3: SOT-89, AE3: SOT-23, T92: TO-92, T9N: TO-92NL (3) x: refer to Classification of h_{FE2} (4) G: Halogen Free, L: Lead Free, Blank: Pb/Sn</p>
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MARKING(For SOT-23 Package)



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-40	V
Collector-Emitter Voltage		V_{CEO}	-25	V
Emitter-Base Voltage		V_{EBO}	-6	V
Collector Dissipation	SOT-23	P_C	350	mW
	SOT-89		0.5	W
	TO-92/TO-92NL		1	W
Collector Current		I_C	-1.5	A
Junction Temperature		T_J	+150	°C
Storage Temperature		T_{STG}	-65 ~ +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.

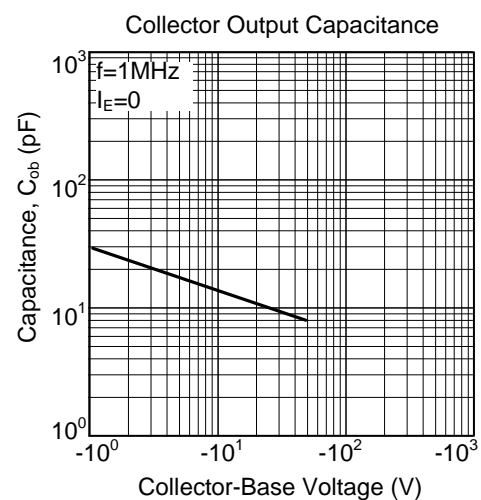
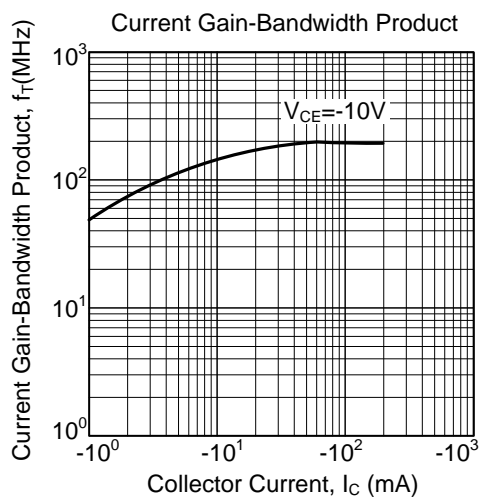
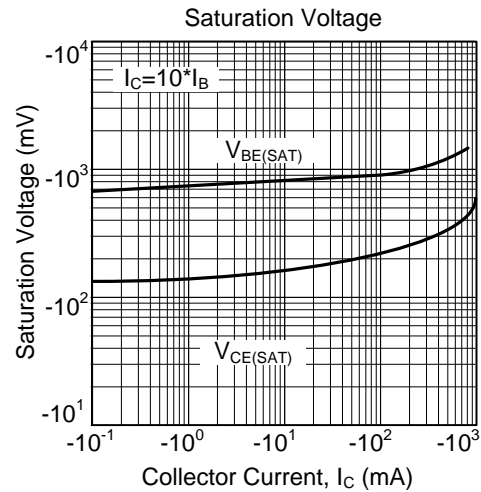
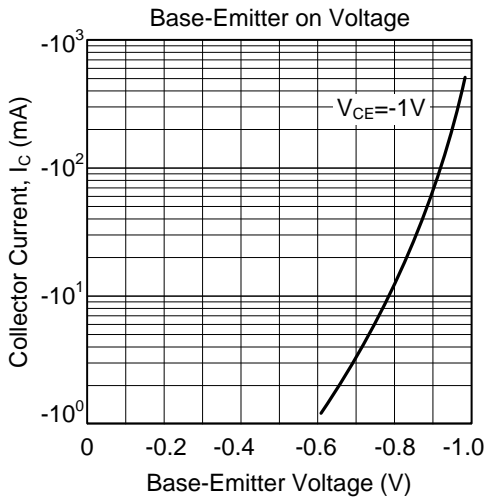
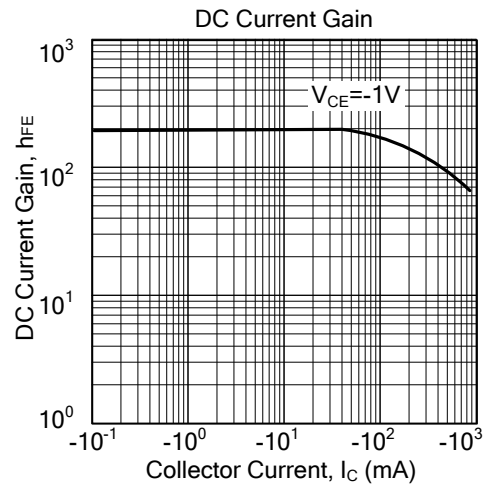
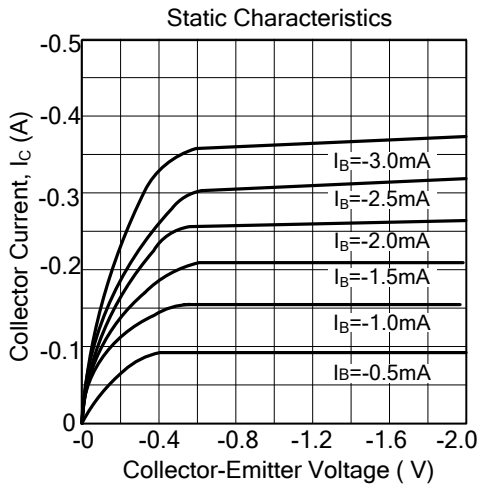
■ **ELECTRICAL CHARACTERISTICS** (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=-100\mu A, I_E=0$	-40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=-2mA, I_B=0$	-25			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=-100\mu A, I_C=0$	-6			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-35V, I_E=0$			-100	nA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-6V, I_C=0$			-100	nA
DC Current Gain	h_{FE1}	$V_{CE}=-1V, I_C=-5mA$	45	170		
	h_{FE2}	$V_{CE}=-1V, I_C=-100mA$	85	160	500	
	h_{FE3}	$V_{CE}=-1V, I_C=-800mA$	40	80		
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=-800mA, I_B=-80mA$		-0.28	-0.5	V
Base-Emitter Saturation Voltage	$V_{BE(SAT)}$	$I_C=-800mA, I_B=-80mA$		-0.98	-1.2	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=-1V, I_C=-10mA$		-0.66	-1.0	V
Current Gain Bandwidth Product	f_T	$V_{CE}=-10V, I_C=-50mA$	100	190		MHz
Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		9.0		pF

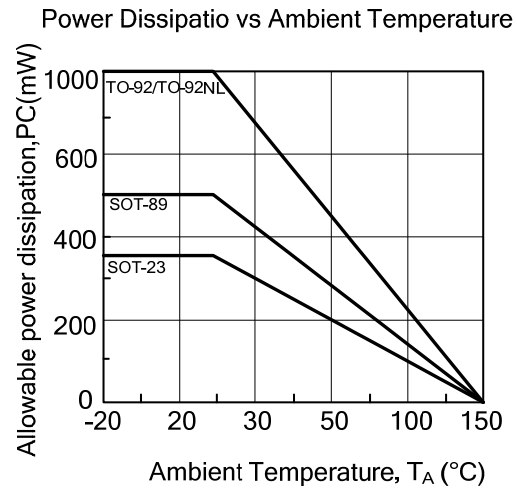
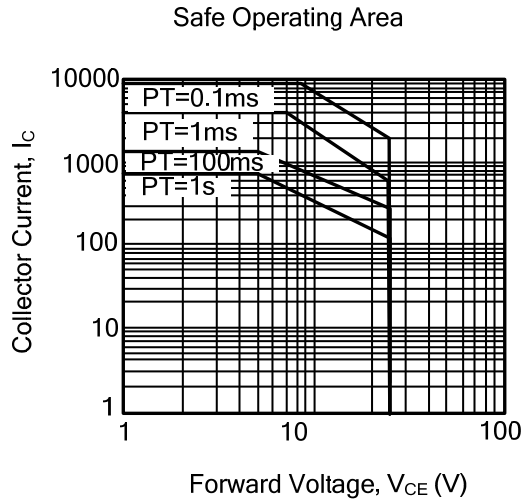
■ **CLASSIFICATION OF h_{FE2}**

RANK	C	D	E
RANGE	120-200	160-300	250-500

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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