UNISONIC TECHNOLOGIES CO., LTD

HE8550

PNP SILICON TRANSISTOR

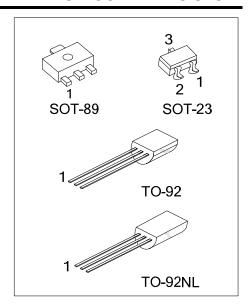
LOW VOLTAGE HIGH **CURRENT SMALL SIGNAL PNP TRANSISTOR**

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.

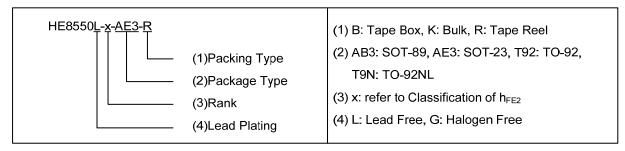
FEATURES

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

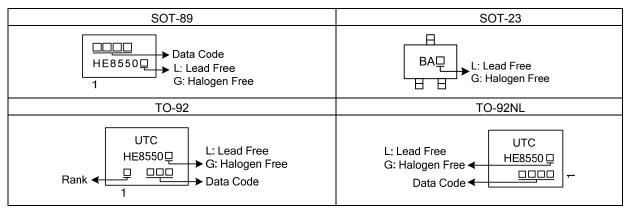


ORDERING INFORMATION

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



MARKING



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

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-40	٧
Collector-Emitter Voltage		V_{CEO}	-25	V
Emitter-Base Voltage		V_{EBO}	-6	V
	SOT-23		350	mW
Collector Dissipation	SOT-89	Pc	0.5	W
	TO-92/TO-92NL		1	W
Collector Current		I _C	-1.5	Α
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.

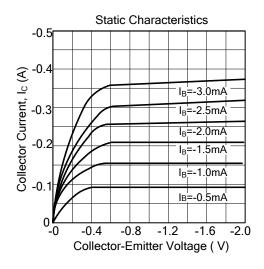
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

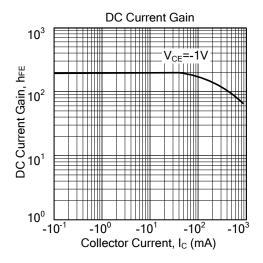
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	I _C =-100μA, I _E =0	-40			V
Collector-Emitter Breakdown Voltage	BV_CEO	I _C =-2mA, I _B =0	-25			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =-100μA, I _C =0	-6			V
Collector Cut-Off Current	I _{CBO}	V_{CB} =-35V, I_{E} =0			-100	nA
Emitter Cut-Off Current	I _{EBO}	V_{EB} =-6 V , I_{C} =0			-100	nA
	h _{FE1}	V _{CE} =-1V, I _C =-5mA	45	170		
DC Current Gain	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

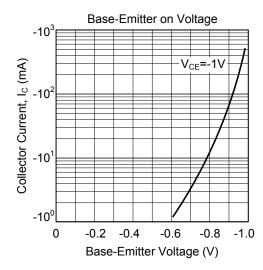
■ CLASSIFICATION OF h_{FE2}

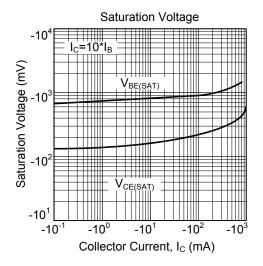
RANK	С	D	Е		
RANGE	120-200	160-300	250-500		

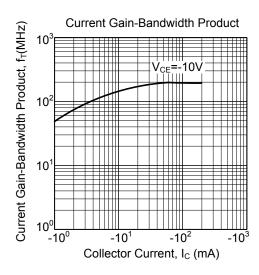
■ TYPICAL CHARACTERISTICS

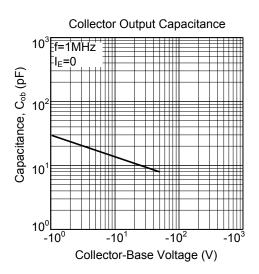






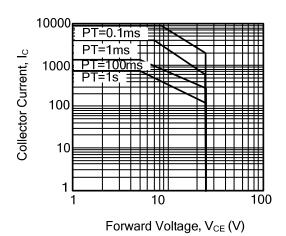


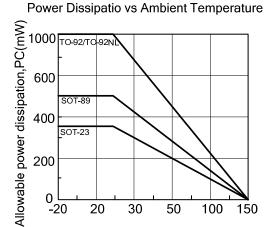




TYPICAL CHARACTERISTICS

Safe Operating Area





30

0

-20

20

Ambient Temperature, T_A (°C)

50

100

150

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