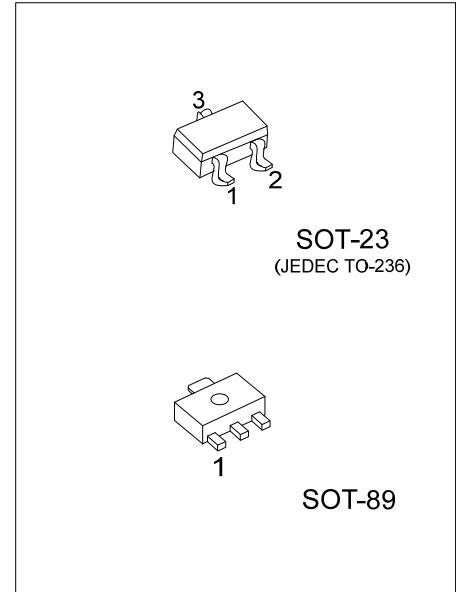


**HE8550B****PNP SILICON TRANSISTOR****LOW VOLTAGE HIGH
CURRENT SMALL SIGNAL PNP
TRANSISTOR****DESCRIPTION**

The UTC **HE8550B** 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
Lead Free	Halogen Free		1	2	3	
HE8550BL-x-AB3-R	HE8550BG-x-AB3-R	SOT-89	B	C	E	Tape Reel
HE8550BL-x-AE3-R	HE8550BG-x-AE3-R	SOT-23	B	E	C	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

HE8550BG-x-AB3-R (1) Packing Type (2) Package Type (3) Rank (4) Green Package	(1) R: Tape Reel (2) AB3: SOT-89, AE3: SOT-23 (3) x: refer to Classification of h_{FE2} (4) G: Halogen Free and Lead Free, L: Lead Free
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MARKING

SOT-89	SOT-23
→ Date Code → L: Lead Free → G: Halogen Free	→ L: Lead Free → G: Halogen Free

■ ABSOLUTE MAXIMUM RATING (T_A=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
	SOT-89		0.5
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.

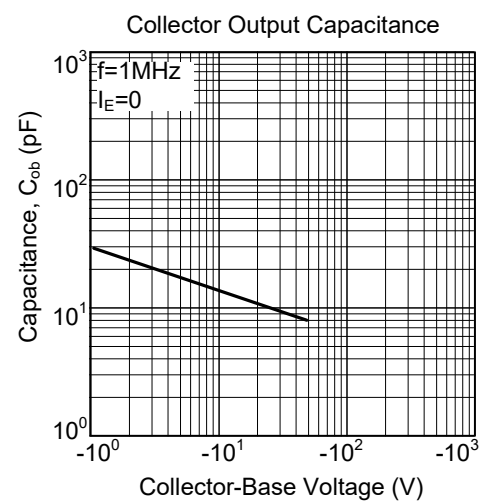
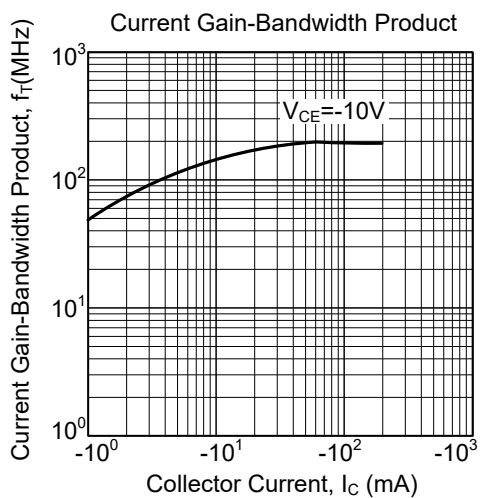
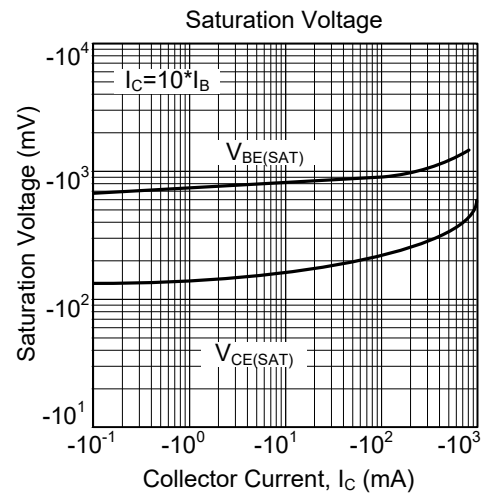
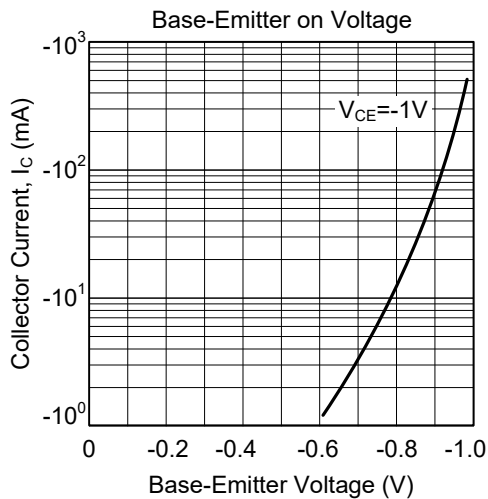
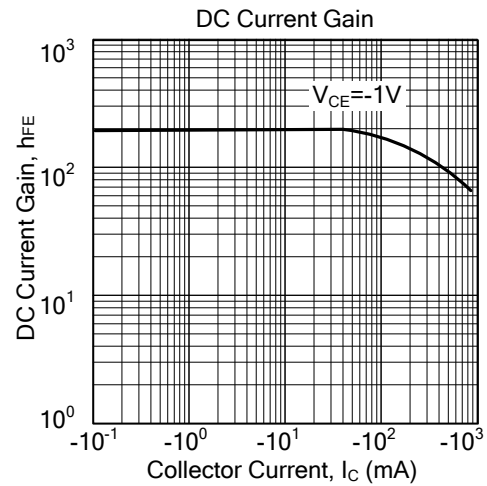
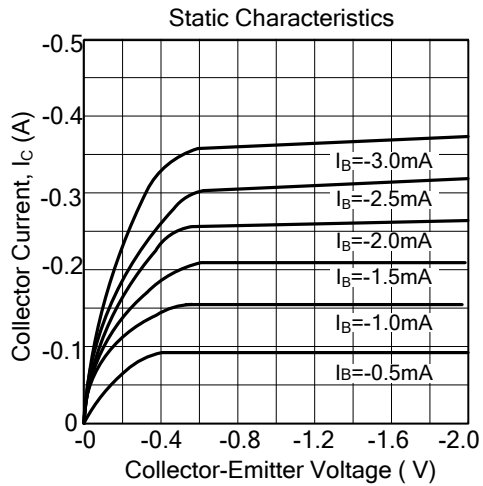
■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

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} =-6V, I _C =0			-100	nA
DC Current Gain	h _{FE1}	V _{CE} =-1V, I _C =-5mA	45	208		
	h _{FE2}	V _{CE} =-1V, I _C =-100mA	85	187	500	
	h _{FE3}	V _{CE} =-1V, I _C =-800mA	40	73		
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-800mA, I _B =-80mA		-0.3	-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		-0.6	-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

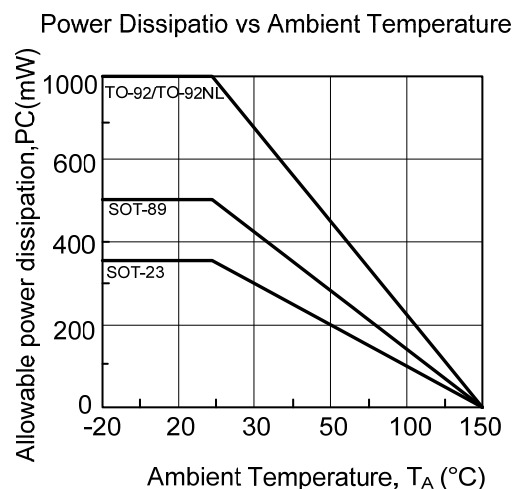
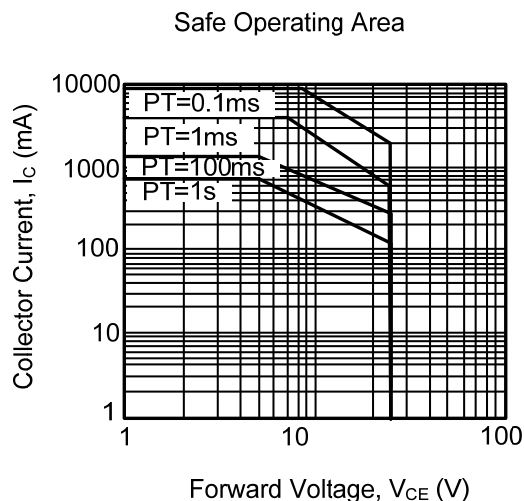
■ CLASSIFICATION OF h_{FE2}

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

■ TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS (Cont.)



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