UNISONIC TECHNOLOGIES CO., LTD

HE8551

PNP SILICON TRANSISTOR

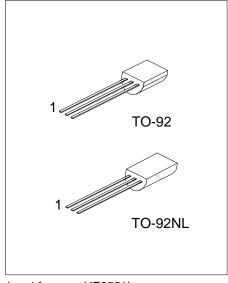
LOW VOLTAGE HIGH CURRENT **SMALL SIGNAL PNP TRANSISTOR**

DESCRIPTION

The UTC HE8551 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

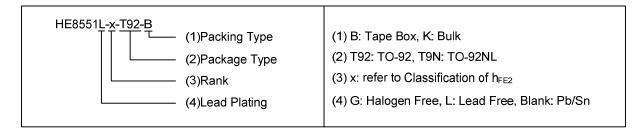
- * Collector current up to 1.5A
- * Collector-emitter voltage up to 25 V
- * Complimentary to UTC HE8051



Lead-free: HE8551L Halogen-free: HE8551G

ORDERING INFORMATION

	Ordering Number			Pin Assignment			Packing	
Normal	Lead Free Plating	Halogen Free	Package	1	2	3	racking	
HE8551-x-T92-B	HE8551L-x-T92-B	HE8551G-x-T92-B	TO-92	Е	В	С	Tape Box	
HE8551-x-T92-K	HE8551L-x-T92-K	HE8551G-x-T92-K	TO-92	Е	В	С	Bulk	
HE8551-x-T9N-B	HE8551L-x-T9N-B	HE8551G-x-T9N-B	TO-92NL	Е	В	С	Tape Box	
HE8551-x-T9N-K	HE8551L-x-T9N-K	HE8551G-x-T9N-K	TO-92NL	Е	В	С	Bulk	



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■ **ABSOLUTE MAXIMUM RATINGS** (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 (Ta=25°C)	Pc	1	W
Collector Current	Ic	-1.5	Α
Junction Temperature	T_J	+150	$^{\circ}$
Storage Temperature	T _{STG}	-65 ~ + 150	$^{\circ}$ 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.

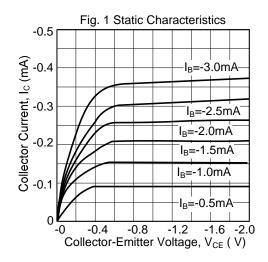
■ **ELECTRICAL CHARACTERISTICS** (T_J=25°C, unless otherwise specified)

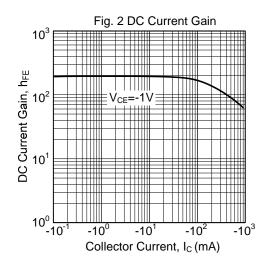
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-100μA, I _E =0	-40			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_C=-2mA$, $I_B=0$	-25			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =-100μA, I _C =0	-6			V
Collector Cut-Off Current	I _{CBO}	V_{CB} =-35 V , 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

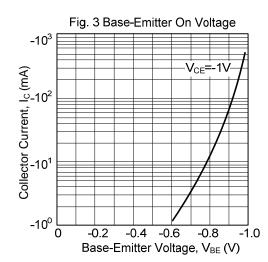
■ CLASSIFICATION OF h_{FE2}

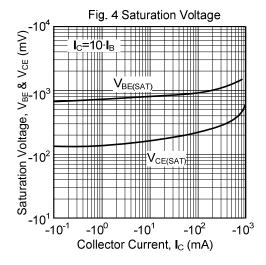
RANK	С	D	Е	
RANGE	120-200	160-300	250-500	

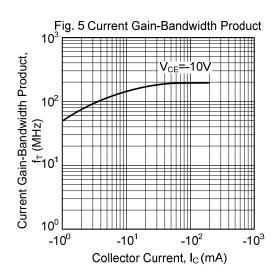
■ TYPICAL CHARACTERISTICS

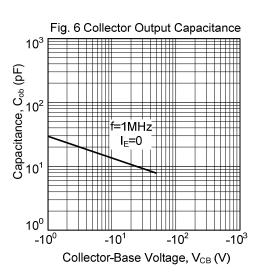












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