

UTC HE8550 PNP EPITAXIAL SILIC ON TRANSISTOR

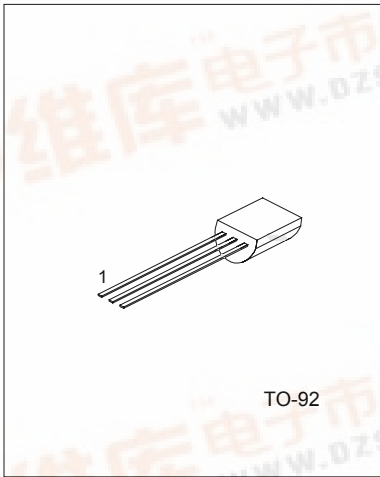
LOW VOLTAGE HIGH CURRENT SMALL SIGNAL PNP TRANSISTOR

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 25 V
- *Complimentary to UTC HE8050



1:EMITTER 2:COLLECTOR 3:BASE

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

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	VCBO	-40	V
Collector-Emitter Voltage	VCEO	-25	V
Emitter-Base Voltage	VEBO	-6	V
Collector Dissipation(Ta=25°C)	Pc	1	W
Collector Current	Ic	-1.5	A
Junction Temperature	Tj	150	°C
Storage Temperature	TSTG	-65 ~ +150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BVCBO	Ic=-100μA,Ie=0	-40			V
Collector-Emitter Breakdown Voltage	BVCEO	Ic=-2mA,Ib=0	-25			V
Emitter-Base Breakdown Voltage	BVEBO	Ie=-100μA,Ic=0	-6			V
Collector Cut-Off Current	ICBO	VCB=-35V,Ie=0			-100	nA
Emitter Cut-Off Current	IEBO	VEB=-6V,Ic=0			-100	nA
DC Current Gain(note)	hFE1	VCE=-1V,Ic=-5mA	45	170		
	hFE2	VCE=-1V,Ic=-100mA	85	160	500	
	hFE3	VCE=-1V,Ic=-800mA	40	80		
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=-800mA,Ib=-80mA		-0.28	-0.5	V
Base-Emitter Saturation Voltage	VBE(sat)	Ic=-800mA,Ib=-80mA		-0.98	-1.2	V
Base-Emitter Voltage	VBE	VCE=-1V,Ic=-10mA		-0.66	-1.0	V
Current Gain Bandwidth Product	fT	VCE=-10V,Ic=-50mA	100	190		MHz
Output Capacitance	Cob	VCB=-10V,Ie=0 f=1MHz		9.0		pF

UTC UNISONIC TECHNOLOGIES CO. LTD



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CLASSIFICATION OF h_{FE}

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

TYPICAL PERFORMANCE CHARACTERISTICS

Fig.1 Static characteristics

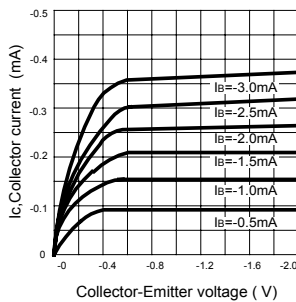


Fig.2 DC current Gain

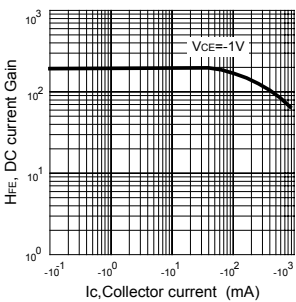


Fig.3 Base-Emitter on Voltage

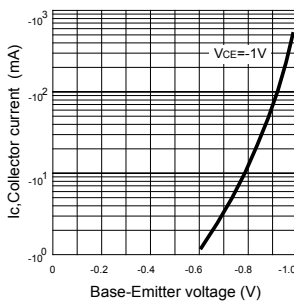


Fig.4 Saturation voltage

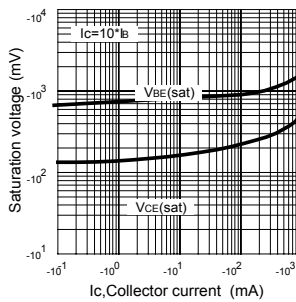


Fig.5 Current gain-bandwidth product

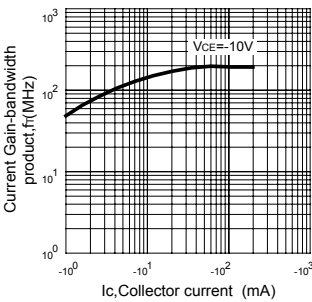
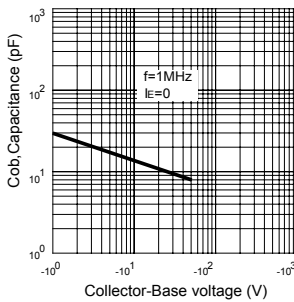


Fig.6 Collector output Capacitance



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