UTC MMBT9012 PNP EPITAXIAL SILICON TRANSISTOR

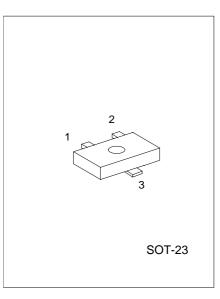
1W OUTPUT AMPLIFIER OF POTABLE RADIOS IN CLASS B PUSH-PULL OPERATION

FEATURES

*High total power dissipation. (625mW) *High collector current. (-500mA) *Excellent hFE linearity *Complementary to UTC MMBT9013

MARKING





1: EMITTER 2: BASE 3: COLLECTOR

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

SYMBOL	RATING	UNIT
Vсво	-40	V
VCEO	-20	V
Vebo	-5	V
lc	-500	mA
Pc	225	mW
Tj	150	°C
Tstg	-55 ~ +150	°C
	VCBO VCEO VEBO Ic Pc Tj	VCBO -40 VCEO -20 VEBO -5 Ic -500 Pc 225 Tj 150

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

PARAMETER	SYMBOL	TEST CONDITIONS M		TYP	MAX	UNIT
Collector-base breakdown voltage	ВУсво	Ic=-100μA,IE=0	-40			V
Collector-emitter breakdown voltage	BVCEO	Ic=-1mA,IB=0				V
Emitter-base breakdown voltage	ВVево	IE=-100μA, Ic=0				V
Collector cutoff current	Ісво	VCB=-25V,IE=0			-100	nA
Emitter cutoff current	lево	VEB=-3V,IC=0			-100	nA
DC current gain	hFE1	VCE=-1V,Ic=-50mA	64	120	300	
	hFE2	VCE=-1V,Ic=-500mA	40	90		
Collector-emitter saturation voltage	VCE(sat)	Ic=-500mA,IB=-50mA		-0.18	-0.6	V
Base-emitter saturation voltage	VBE(sat)	Ic=-500mA,IB=-50mA		-0.95	-1.2	V
Base-emitter on voltage	VBE(on)	VCE=-1V,Ic=-10mA	-0.6	-0.67	-0.7	V

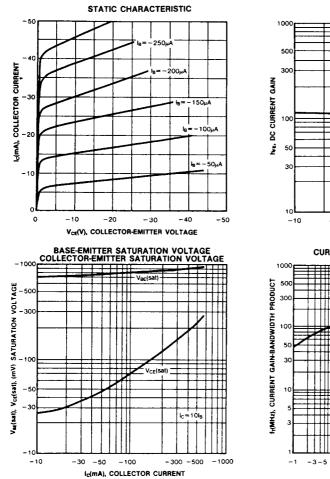
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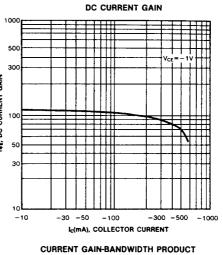
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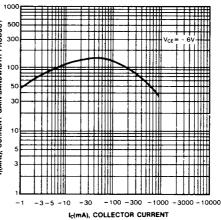
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CLASSIFICATION OF hFE1

RANK	D	E	F	G	Н	I
RANGE	64-91	78-112	96-135	112-166	144-202	190-300







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UTC MMBT9012 PNP EPITAXIAL SILICON TRANSISTOR

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