UTCKSC945 NPNEPITAXIAL SILICON TRANSISTOR

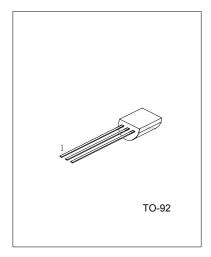
AUDIO FREQUENCY AMPLIFIER HIGH FREQUENCY OSC NPN **TRANSISTOR**

DESCRIPTION

The UTC KSC945 is an audio frequency amplifier high frequency OSC NPN transistor.

FEATURES

- *Collector-Base voltage: BVcBo=60V
- *Collector current up to 150mA
- *High hFE linearity
- *Complimentary to KSA733



1:EMITTER 2: BASE 3: COLLECTOR

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

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	Vсво	60	V
Collector-Emitter Voltage	VCEO	50	V
Emitter-Base Voltage	VEBO	5	V
Collector Dissipation(Ta=25°C)	Pc	250	mW
Collector Current	lc	150	mA
Base Current	lB	50	mA
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 ~ + 150	°C

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

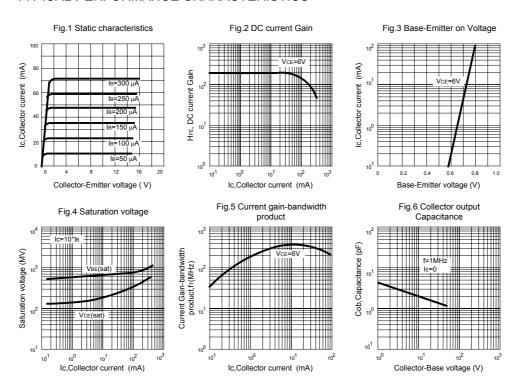
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	ВУсво	Ic=100μA, IE=0	60			V
Collector-Emitter Breakdown Voltage	BVceo	Ic=10mA,I _B =0	50			V
Collector Cut-Off Current	Ісво	Vcb=40V,IE=0			100	nA
Emitter Cut-Off Current	IEBO	VEB=3V,Ic=0			100	nA
DC Current Gain(note)	hFE	VcE=6V,Ic=1mA	40		700	
Collector-Emitter Saturation Voltage	Vce(sat)	Ic=100mA,IB=10mA		0.1	0.3	V
Current Gain Bandwidth Product	f⊤	VcE=10V,lc=50mA	100	190		MHz
Output Capacitance	Cob	Vcb=10V,IE=0,f=1MHz		2.0	3.0	pF
Noise Figure	NF	Ic=-0.1mA,VCE=6V		4.0	6.0	dB
		RG=10k Ω ,f=100Hz				

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CLASSIFICATION OF hFE

RANK	R	0	Y	G	L
RANGE	40-80	70-140	120-240	200-400	350-700

TYPICAL PERFORMANCE CHARACTERISTICS



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