

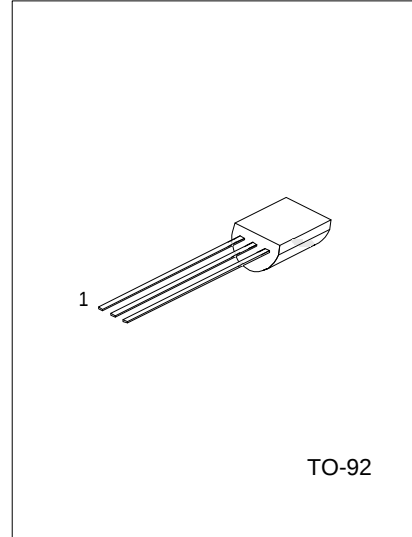
UTC9018

NPN EPITAXIAL PLANAR TRANSISTOR

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DESCRIPTION

The UTC 9018 is designed for use in AM/FM if amplifier and local oscillator of FM/VHF tuner.



ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	VCBO	30	V
Collector-Emitter Voltage	VCEO	15	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	I _C	50	mA
Base Current	I _B	10	mA
Storage Temperature	T _{STG}	-55 ~ +150	°C
Junction Temperature	T _j	150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BVCBO	I _C =100uA	30			V
Collector-Emitter Breakdown Voltage	BVCEO	I _C =1mA	15			V
Emitter-Base Breakdown Voltage	BVEBO	I _E =100uA	5.0			V
Collector Cut-Off Current	ICBO	VCB=12V			50	nA
Collector-Emitter Saturation Voltage	VCE(SAT)	I _C =10mA, I _B =1mA			0.5	V
DC Current Gain	hFE	VCE=5V, I _C =1mA	39		198	
Current Gain Bandwidth Product	fT	VCE=5V, I _C =5mA	700	1100		MHz
Output Capacitance	Cob	VCB=10V, I _E =0		1.3	1.7	pF

CLASSIFICATION ON hFE

RANK	E	F	G	H	I
RANGE	39-60	54-80	72-108	97-146	132-198

UTC

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