

UTC UNISONIC TECHNOLOGIES CO., LTD

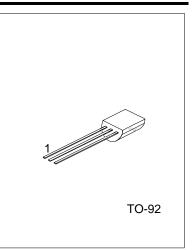
9018

NPN EPITAXIAL PLANAR TRANSISTOR

AM/FM AMPLIFIER, LOCAL OSCILLATOR OF FM/VHF TUNER

FEATURES

* High Current Gain Bandwidth Product f_T=1.1GHz (Typ)



ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment			Packing	
Lead Free	Halogen Free	Package	1	2	3	Facking	
9018L-x-T92-B	9018G-x-T92-B	TO-92	Е	В	С	Tape Box	
9018L-x-T92-K	9018G-x-T92-K	TO-92	Е	В	С	Bulk	
9018L-x-T92-R	9018G-x-T92-R	TO-92	ш	В	С	Tape Reel	
Note: Pin Assignment: E: EMITTER B: BASE C: COLLECTOR							
9018 <u>L</u> -x- <u>T92</u> -B	 (1) B: Tape Box, T: Tape Reel, R: Tape Reel (2) T92: TO-92 (3) x: refer to Classification of Hfe (4) G:Halogen Free, L: Lead Free 						

PARAMETER	SYMBOL	RATINGS	UNIT
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CEO}	15	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	Ι _C	50	mA
Collector Power Dissipation	Pc	400	mW
Junction Temperature	TJ	125	°C
Operating Temperature	T _{OPR}	-20 ~ +85	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

■ ABSOLUTE MAXIMUM RATING (T_A=25°C, unless otherwise specified)

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_A=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =100uA, I _E =0	30			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	I _C =1mA, I _B =0	15			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E =100uA, I _C =0	5			V
Collector Cut-Off Current	I _{CBO}	$V_{CB}=12V, I_{E}=0$			50	nA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =10mA, I _B =1mA			0.5	V
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =1mA	28	100	198	
Current Gain Bandwidth Product	f _T	V _{CE} =5V, I _C =5mA	700	1100		MHz
Output Capacitance	Сов	V _{CB} =10V, I _E =0, f=1MHz		1.3	1.7	pF

CLASSIFICATION of h_{FE}

RANK	D	E	F	G	Н	I
RANGE	28-45	39-60	54-80	72-108	97-146	132-198

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