UTCMMBT9018 NPN EPITAXIAL PLANAR TRANSISTOR

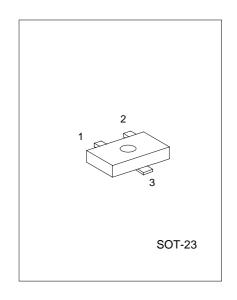
AM/FM AMPLIFIER, LOCAL OSCILLATOR OF FM/VHF **TUNER**

FEATURES

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

MARKING





1:EMITTER 2:BASE 3:COLLECTOR

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

PARAMETER	SYMBOL	VALUE	UNIT	
Collector-Base Voltage	V_{CBO}	30	V	
Collector-Emitter Voltage	V_{CEO}	15	V	
Emitter-Base Voltage	V_{EBO}	5	V	
Collector Current	Ic	50	mA	
Collector Power Dissipation	Pc	225	mW	
Storage Temperature	T _{STG}	-55 ~ +150	°C	
Junction Temperature	Tj	150	°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT			
Collector-Base Breakdown Voltage	BV_CBO	I _C =100uA, I _E =0	30			V			
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=1$ mA, $I_B=0$	15			V			
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =100uA, Ic=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	fT	V _{CE} =5V, I _C =5mA 700 1		1100		MHz			
Output Capacitance	Cob	V _{CB} =10V, I _E =0, f=1MHz		1.3	1.7	pF			

CLASSIFICATION of her

- 4							
	RANK	D	Е	F	G	Н	I
	RANGE	28-45	39-60	54-80	72-108	97-146	132-198

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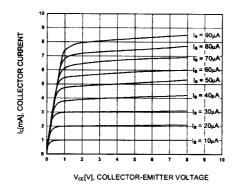


Figure 1. Static Characteristic

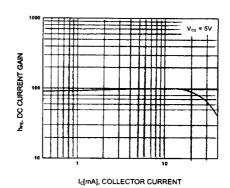


Figure 2. DC current Gain

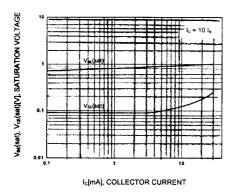


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

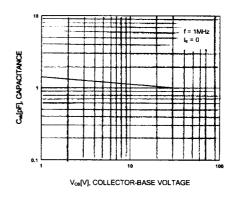


Figure 4. Output Capacitance

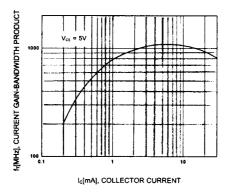


Figure 5. Current Gain Bandwidth Product

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