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

FEATURES

"High Current Gain Bandwidth Product fr=1.1GHz (Typ)



1:EMITTER 2:BASE 3:COLLECTOR

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

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{cto}	30	V
Collector-Emitter Voltage	Voto	15	V
Emitter-Base Voltage	Veso	5	V
Collector Current	lo	50	mA
Collector Power Dissipation	Pc	400	mW
Storage Temperature	T _{STG}	-55 ~ +150	*c
Junction Temperature	TJ	150	*c

ELECTRICAL CHARACTERISTICS (Ta-25°C)

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT			
Collector-Base Breakdown Voltage	BV _{cpo}	l _e =100uA, l _e =0	30			ν			
Collector-Emitter Breakdown Voltage	BV _{cpo}	l ₀ =1mA, l ₈ =0	15			ν			
Emitter-Base Breakdown Voltage	BV ₆₈₀	l _e =100uA, lc=0	5			ν			
Collector Cut-Off Current	loso	V _{ce} =12V, l _e =0			50	nΑ			
Collector-Emitter Saturation Voltage	V _{CD(SAT)}	l _e =10mA, l _e =1mA			0.5	ν			
DC Current Gain	hrp	V ₀₀ =5V, l ₀ =1mA	28	100	198				
Current Gain Bandwidth Product	п	V _{op} =5V, l _o =5mA	700	1100		MHz			
Output Capacitance	Cob	V _{C6} =10V, I _E =0, f=1MHz		1.3	1.7	pF			

CLASSIFICATION of her

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

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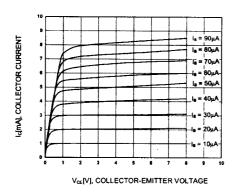


Figure 1. Static Characteristic

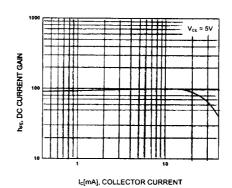


Figure 2. DC current Gain

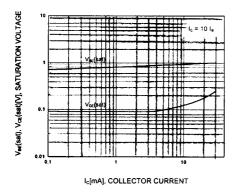


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

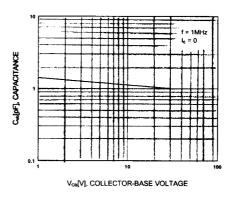


Figure 4. Output Capacitance

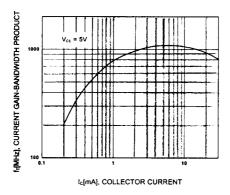


Figure 5. Current Gain Bandwidth Product

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