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SS9018

AM/FM Amplifier, Local Oscillator of FM/VHF Tuner

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



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	30	V
V_{CEO}	Collector-Emitter Voltage	15	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	50	mA
P _C	Collector Power Dissipation	400	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = 100 \mu A, I_E = 0$	30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1.0mA, I _B =0	15			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = 100 \mu A, I_C = 0$	5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 12V, I_{E} = 0$			50	nA
h _{FE}	Emitter Cut-off Current	$V_{CE} = 5V$, $I_{C} = 1.0$ mA	28	100	198	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 10mA$, $I_B = 1mA$			0.5	V
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0 f=1MHz		1.3	1.7	pF
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V$, $I_{C} = 5mA$	700	1100		MHz

h_{FE} Classification

Classification	D	E	F	G	Н	I
h _{FE}	28 ~ 45	39 ~ 60	54 ~ 80	72 ~ 108	97 ~ 146	132 ~ 198

Typical Characteristics

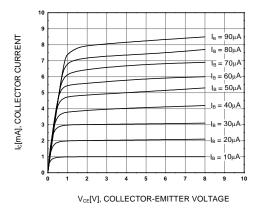


Figure 1. Static Characteristic

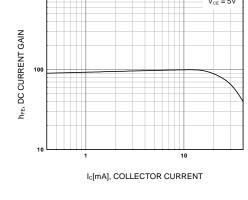


Figure 2. DC current Gain

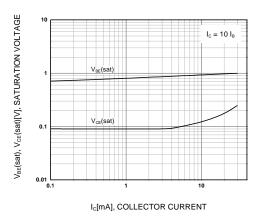


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

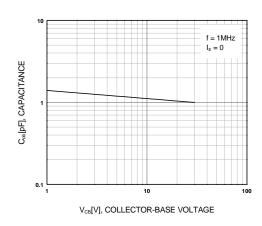


Figure 4. Output Capacitance

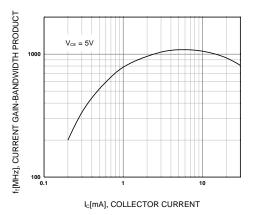
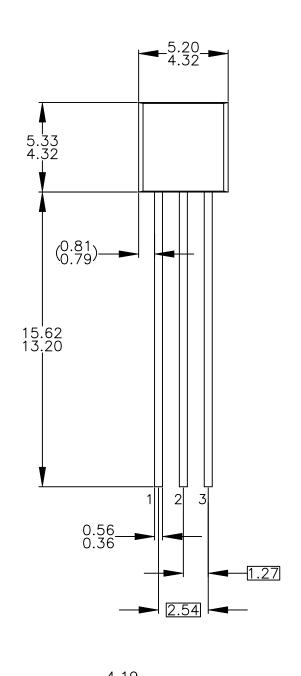
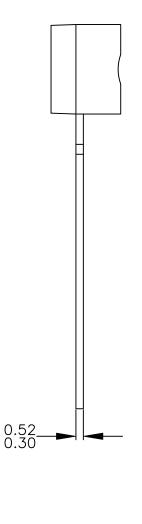


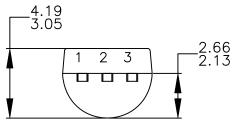
Figure 5. Current Gain Bandwidth Product





NOTES: UNLESS OTHERWISE SPECIFIED

- DRAWING WITH REFERENCE TO JEDEC TO-92 RECOMMENDATIONS.
 ALL DIMENSIONS ARE IN MILLIMETERS.
 DRAWING CONFORMS TO ASME Y14.5M-2009.
 DRAWING FILENAME: MKT-ZAO3DREV4.





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