

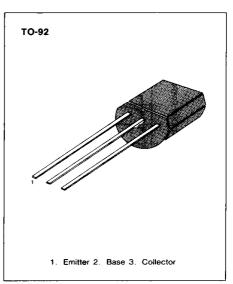
SS9018 S/S TR

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

• High Current Gain Bandwidth Product fr =1,100 MHz (Typ)

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	Vceo	30	v	
Collector-Emitter Voltage	VCEO	15	v	
Emitter-Base Voltage	VEBO	5	v	
Collector Current	lc	50	mA	
Collector Dissipation	Pc	400	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature	Tstg	-55~150	°C	



## **ELECTRICAL CHARACTERISTICS (Ta=25°C)**

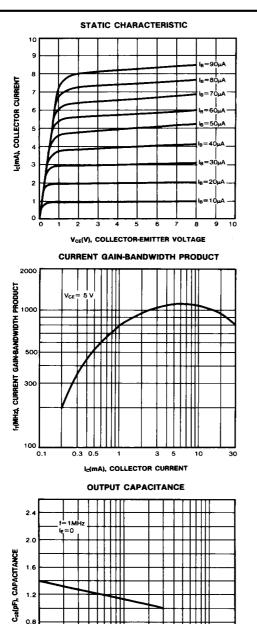
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	$I_{c}=100\mu A, I_{E}=0$	30			v
Collector-Emitter Breakdown Voltage	BVCEO	$I_{c} = 1.0 \text{mA}, I_{B} = 0$	15			v
Emitter-Base Breakdown Voltage	<b>BV</b> EBO	$I_{\rm E} = 100 \mu A, I_{\rm C} = 0$	5			v
Collector Cutoff Current	l <sub>CBO</sub>	$V_{CB} = 12V, I_E = 0$			50	nA
DC Current Gain	h <sub>FE</sub>	$V_{CE} = 5V$ , $I_C = 1.0mA$	28	100	198	
Collector-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	$l_c = 10 \text{mA}, l_B = 1 \text{mA}$			0.5	v
Output Capacitance	Cob	$V_{CB} = 10V, I_E = 0$		1.3	1.7	pF
Current Gain-Bandwidth Product	f <sub>T</sub>	f=1MHz $V_{CE}=5V$ , $I_{C}=5mA$	700	1100		MHz

## **h**<sub>FE</sub> CLASSIFICATION

Classification	D	E	F	G	н	I
h <sub>FE</sub>	28-45	39-60	54-80	72-108	97-146	132-198



SS9018 S/S TR



 $\prod$ 

Π

3 5

10

VCB(V), COLLECTOR-BASE VOLTAGE

0.4

0

30 50

100

