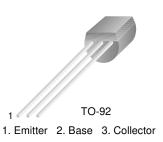
FAIRCHILD

SEMICONDUCTOR®

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 $T_a=25^{\circ}C$ unless otherwise noted

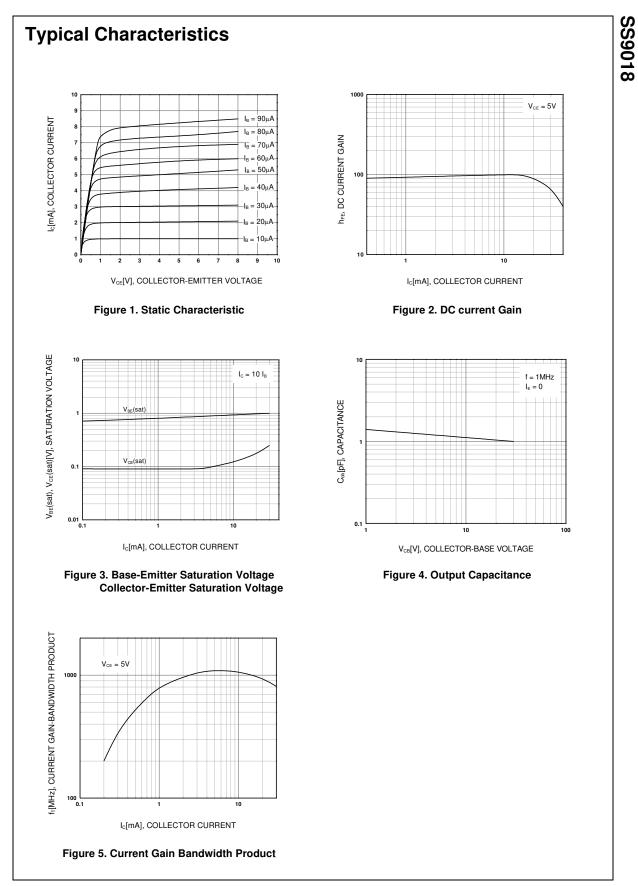
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	30	V	
V _{CEO}	Collector-Emitter Voltage	15	V	
V _{EBO}	Emitter-Base Voltage	5	V	
c	Collector Current	ector Current 50		
Pc	Collector Power Dissipation	400	mW	
ТJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units	
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, 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 =100μA, 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 =1.0mA	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	

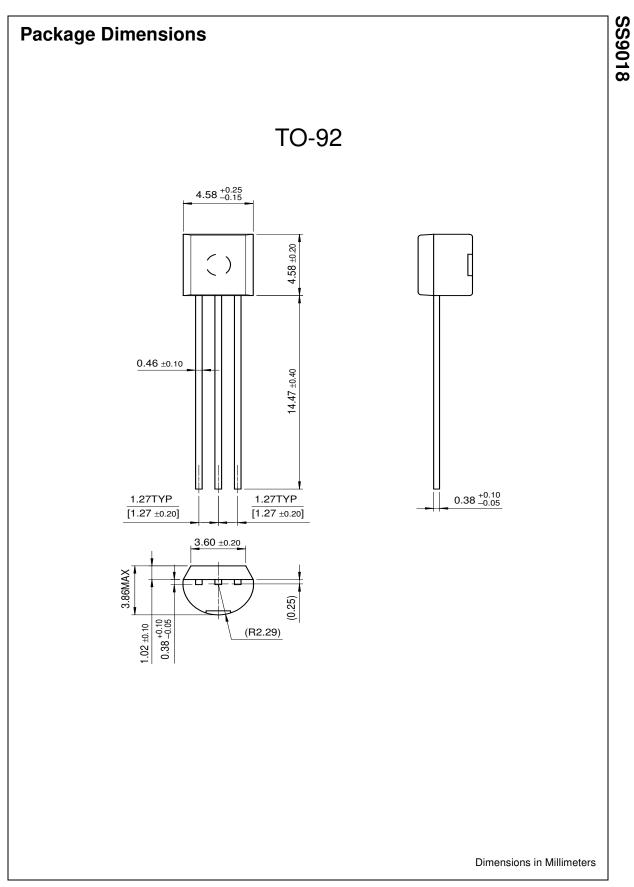
h_{FE} Classification

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



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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