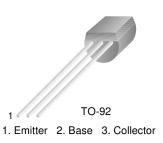
FAIRCHILD

SEMICONDUCTOR®

SS9018

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

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



-55 ~ 150

°C

NPN Epitaxial Silicon Transistor

Storage Temperature

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		
Ι _C	Collector Current	50	mA		
P _C	Collector Power Dissipation	400	mW		
Тј	Junction Temperature	150	°C		

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

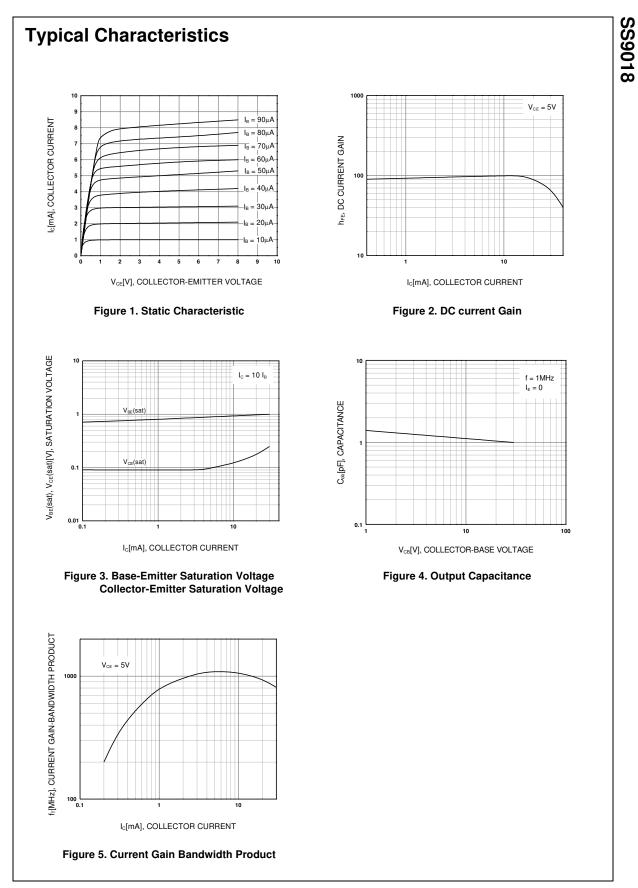
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1.0mA, I _B =0	15			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{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

 $\mathsf{T}_{\mathsf{STG}}$

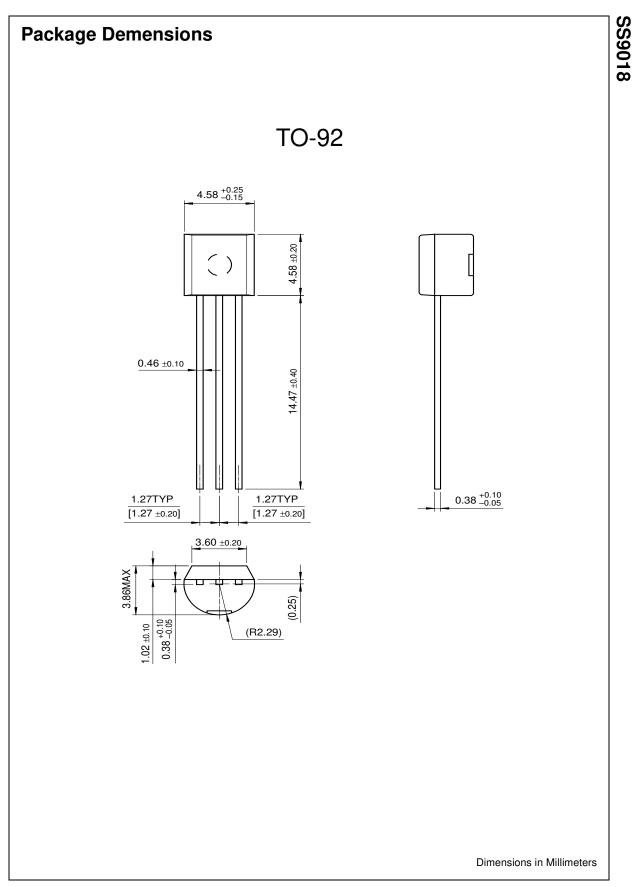
Classification	D	E	F	G	Н	I
h _{FE}	28 ~ 45	39 ~ 60	54 ~ 80	72 ~ 108	97 ~ 146	132 ~ 198

SS9018



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Rev. A3, May 2002



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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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