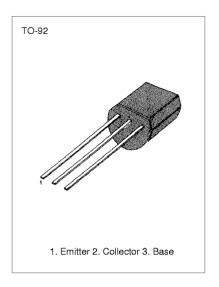
# TV VHF, UHF TUNER OSCILLATOR

- High Current Gain Bandwidth Product f<sub>T</sub>=11000MHz
- Output Capacitance C<sub>OB</sub>=1.5pF (Max)

# ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation Junction Temperature Storage Temperature	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>C</sub> T <sub>J</sub> T <sub>STG</sub>	30 15 5 50 250 150 -55 ~ 150	° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °



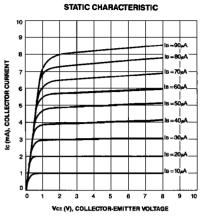
## **ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)**

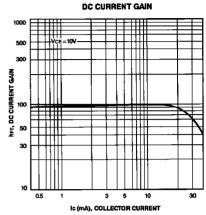
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage Collector Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Current Gain-Bandwidth Product Output Capacitance Collector-Base Time Constant	BVcBo BVcEo BVEBO IcBo hFE VcE (sat) fT CoB	$\begin{array}{c}  _{C}=10\mu\text{A},  _{E}=0 \\  _{C}=5\text{mA},  _{B}=0 \\  _{E}=10\mu\text{A},  _{C}=0 \\ \text{V}_{CB}=12\text{V},  _{E}=0 \\ \text{V}_{CE}=10\text{V},  _{C}=5.0\text{mA} \\  _{C}=10\text{mA},  _{B}=1\text{mA} \\ \text{V}_{CE}=10\text{V},  _{C}=5\text{mA} \\ \text{V}_{CB}=10\text{V},  _{C}=10\text{V},  $	30 15 5 40 800	1100	0.1 240 0.5 1.5	V V V μA V MHz pF

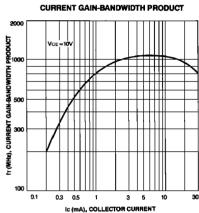
## h<sub>FE</sub> CLASSIFICATION

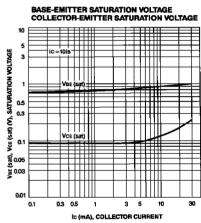
Classification	R	0	Υ
h <sub>FE</sub>	40-80	70-140	120-240

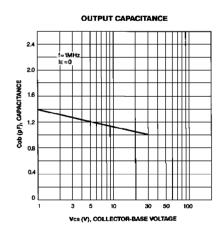


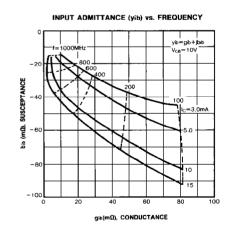




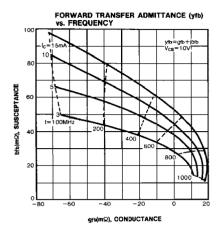


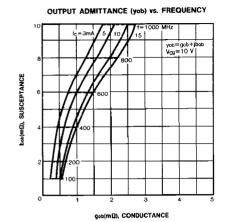


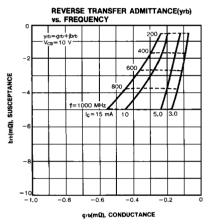














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FACT<sup>TM</sup> QS<sup>TM</sup>

FACT Quiet Series  $^{\text{TM}}$  Quiet Series  $^{\text{TM}}$  SuperSOT  $^{\text{TM}}$ -3 FAST  $^{\text{TM}}$  SuperSOT  $^{\text{TM}}$ -6 GTO  $^{\text{TM}}$  SuperSOT  $^{\text{TM}}$ -8 HiSeC  $^{\text{TM}}$ 

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## **PRODUCT STATUS DEFINITIONS**

#### **Definition of Terms**

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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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