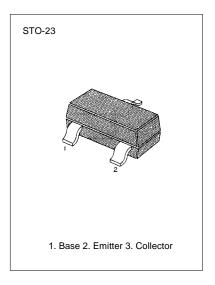
LOW FREQUENCY POWER AMPLIFIER

• Complement to KSA1182

ABSOLUTE MAXIMUM RATINGS (T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	35	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	500	mA
Collector Dissipation	Pc	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55 ~ 150	°C

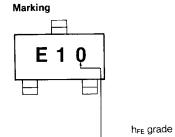


ELECTRICAL CHARACTERISTICS (T_A=25°C)

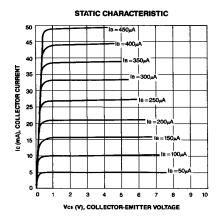
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cut-off Current Emitter Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Base-Emitter On Voltage Current Gain-Bandwidth Product Output Capacitance	$\begin{array}{c} I_{CEO} \\ I_{EBO} \\ h_{FE}(1) \\ h_{FE}(2) \\ V_{CE} \ (sat) \\ V_{BE} \ (on) \\ f_T \\ C_{OB} \end{array}$	$\begin{array}{c} V_{CB} \! = \! 35V, I_E \! = \! 0 \\ V_{EB} \! = \! 5V, I_C \! = \! 0 \\ V_{CE} \! = \! 1V, I_C \! = \! 100mA \\ V_{CE} \! = \! 6V, I_C \! = \! 400mA \\ I_C \! = \! 100mA, I_B \! = \! 10mA \\ I_C \! = \! 100mA, V_{CE} \! = \! 1V \\ I_C \! = \! 20mA, V_{CE} \! = \! 6V \\ V_{CB} \! = \! 6V, I_E \! = \! 0 \\ f \! = \! 1MHz \end{array}$	70 25	0.1 0.8 300 7	0.1 0.1 240 0.25 1.0	μΑ μΑ V V MHz pF

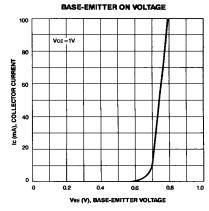
h_{FE} CLASSIFICATION

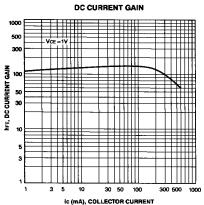
Classification	0	Y
h _{FE} (1)	70-140	120-240

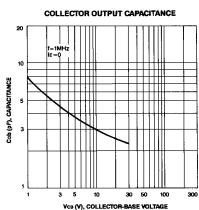


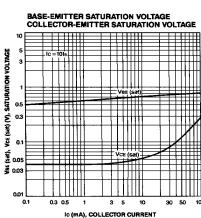














TRADEMARKS

The following are registered and unregistered trademarks Fairchild Semiconductor owns or is authorized to use and is not intended to be an exhaustive list of all such trademarks.

ACEXTM ISOPLANARTM
CoolFETTM MICROWIRETM

CROSSVOLTTM POPTM

E²CMOS[™] PowerTrench[™]

FACTTM QSTM

 $\begin{array}{lll} \mathsf{FACT} \ \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} & \mathsf{Quiet} \ \mathsf{Series^{\mathsf{TM}}} \\ \mathsf{FAST}^{\otimes} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}3 \\ \mathsf{FASTr^{\mathsf{TM}}} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}6 \\ \mathsf{GTO^{\mathsf{TM}}} & \mathsf{SuperSOT^{\mathsf{TM}}}\text{-}8 \\ \mathsf{HiSeC^{\mathsf{TM}}} & \mathsf{TinyLogic^{\mathsf{TM}}} \end{array}$

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, or (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

 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

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.	
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.	