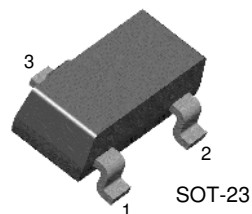


KSA1298

KSA1298

Low Frequency Power Amplifier

- Complement to KSC3265



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CB0}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-800	mA
I_B	Base Current	-160	mA
P_C	Collector Power Dissipation	200	mW
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

• Refer to KSA643 for graphs.

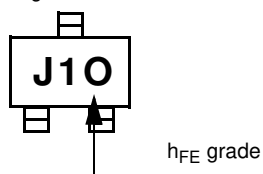
Electrical Characteristics $T_a=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}, I_B = 0$	-25			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -1\text{mA}, I_C = 0$	-5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -30\text{V}, I_E = 0$			-100	nA
I_{EBO}	Emitter Cut-off Current	$V_{BE} = -5\text{V}, I_C = 0$			-100	nA
h_{FE1} h_{FE2}	DC Current Gain	$V_{CE} = -1\text{V}, I_C = -100\text{mA}$ $V_{CE} = -1\text{V}, I_C = -800\text{mA}$	100 40		320	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -500\text{mA}, I_B = -20\text{mA}$			-0.4	V
$V_{BE(on)}$	Base-Emitter On Voltage	$V_{CE} = -1\text{V}, I_C = -10\text{mA}$	-0.5		-0.8	V
f_T	Current Gain Bandwidth Product	$V_{CE} = -5\text{V}, I_C = -10\text{mA}$		120		MHz
C_{ob}	Output Capacitance	$V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$		13		pF

h_{FE1} Classification

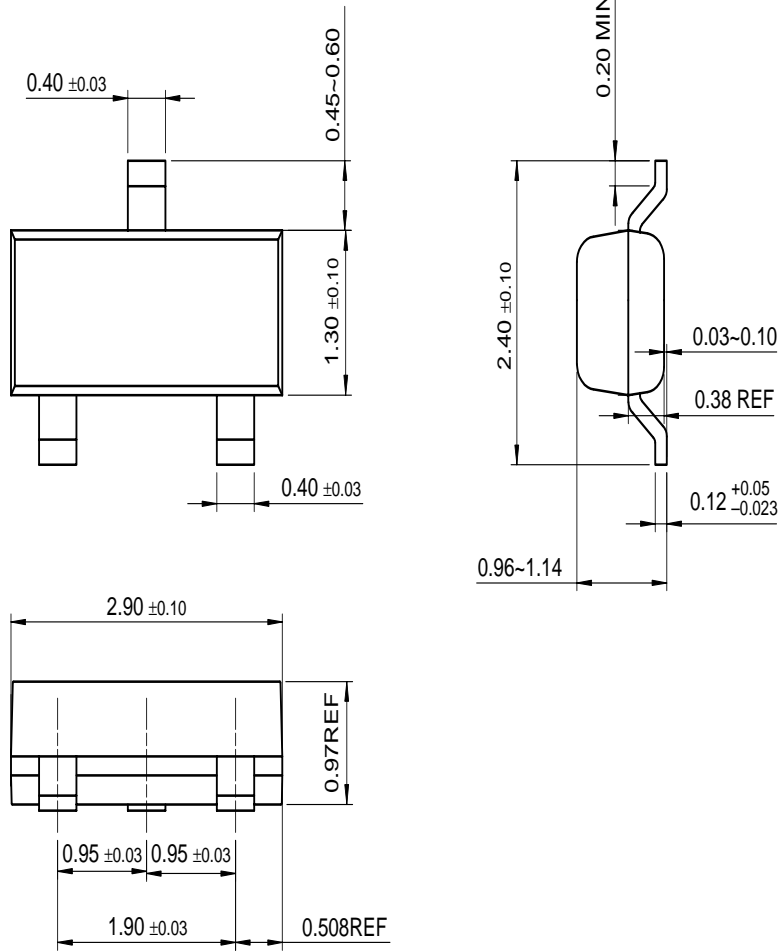
Classification	O	Y
h_{FE1}	100 ~ 200	160 ~ 320

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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.

ACE _x [™]	FAST [®]	OPTOPLANAR [™]	STAR*POWER [™]
Bottomless [™]	FAST _r [™]	PACMAN [™]	Stealth [™]
CoolFET [™]	FRFET [™]	POP [™]	SuperSOT [™] -3
CROSSVOLT [™]	GlobalOptoisolator [™]	Power247 [™]	SuperSOT [™] -6
DenseTrench [™]	GTO [™]	PowerTrench [®]	SuperSOT [™] -8
DO _M E [™]	HiSeC [™]	QFET [™]	SyncFET [™]
EcoSPARK [™]	ISOPLANAR [™]	QS [™]	TruTranslation [™]
E ² CMOS [™]	LittleFET [™]	QT Optoelectronics [™]	TinyLogic [™]
EnSigna [™]	MicroFET [™]	Quiet Series [™]	UHC [™]
FACT [™]	MICROWIRE [™]	SLIENT SWITCHER [®]	UltraFET [®]
FACT Quiet Series [™]	OPTOLOGIC [™]	SMART START [™]	VCX [™]

STAR*POWER is used under license

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.
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

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.

Home >> Find products >>

KSA1298

PNP Epitaxial Silicon Transistor

Contents

- [Features](#)
- [Product status/pricing/packageing](#)
- [Order Samples](#)
- [Qualification Support](#)

Features

Low Frequency Power Amplifier

- Complement to KSC3265

[back to top](#)

Product status/pricing/packageing

BUY

BUY

Datasheet

[Download this datasheet](#)



[e-mail this datasheet](#)



This page

[Print version](#)

Related Links

[Request samples](#)

[How to order products](#)

[Product Change Notices \(PCNs\)](#)

[Support](#)

[Sales support](#)

[Quality and reliability](#)

[Design center](#)

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
KSA1298OMTF	Full Production	Full Production	\$0.035	SOT-23	3	TAPE REEL	Line 1: J1O
KSA1298YMTF	Full Production	Full Production	\$0.035	SOT-23	3	TAPE REEL	Line 1: J1Y
KSA1298YMTF_NL	Full Production	Full Production	N/A	SOT-23	3	TAPE REEL	Line 1: J1Y

* Fairchild 1,000 piece Budgetary Pricing

** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a [Fairchild distributor](#) to obtain samples



Indicates product with Pb-free second-level interconnect. For more information [click here](#).

Package marking information for product KSA1298 is available. [Click here for more information](#).

[back to top](#)

Qualification Support

Click on a product for detailed qualification data

Product
KSA1298OMTF
KSA1298YMTF
KSA1298YMTF_NL

[back to top](#)

© 2007 Fairchild Semiconductor

