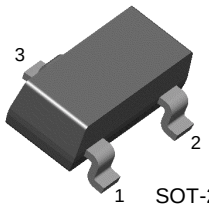
FAIRCHILD
SEMICONDUCTOR®

KSC3265

Low Frequency Amplifier

- Complement to KSA1298



SOT-23

1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	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	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

* Refer to KSD261 for graphs

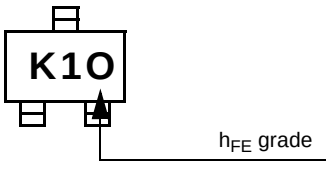
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C=10mA, I_B=0	25			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E=1mA, I_C=0	5			V
I_{CBO}	Collector Cut-off Current	V_{CB}=30V, I_E=0			100	nA
I_{EBO}	Emitter Cut-off Current	V_{EB}=5V, I_C=0			100	nA
h_{FE1} h_{FE2}	DC Current Gain	V_{CE}=1V, I_C=100mA V_{CE}=6V, I_C=800mA	100 40		320	
V_{CE} (sat)	Collector-Emitter Saturation Voltage	I_C=500mA, I_B=20mA			0.4	V
V_{BE} (on)	Base-Emitter On Voltage	V_{CE}=1V, I_C=10mA	0.5		0.8	V
f_T	Current Gain Bandwidth Product	V_{CE}=5V, I_C=10mA		120		MHz
C_{ob}	Output Capacitance	V_{CB}=10V, I_E=0, f=1MHz		13		pF

h_{FE} Classification

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

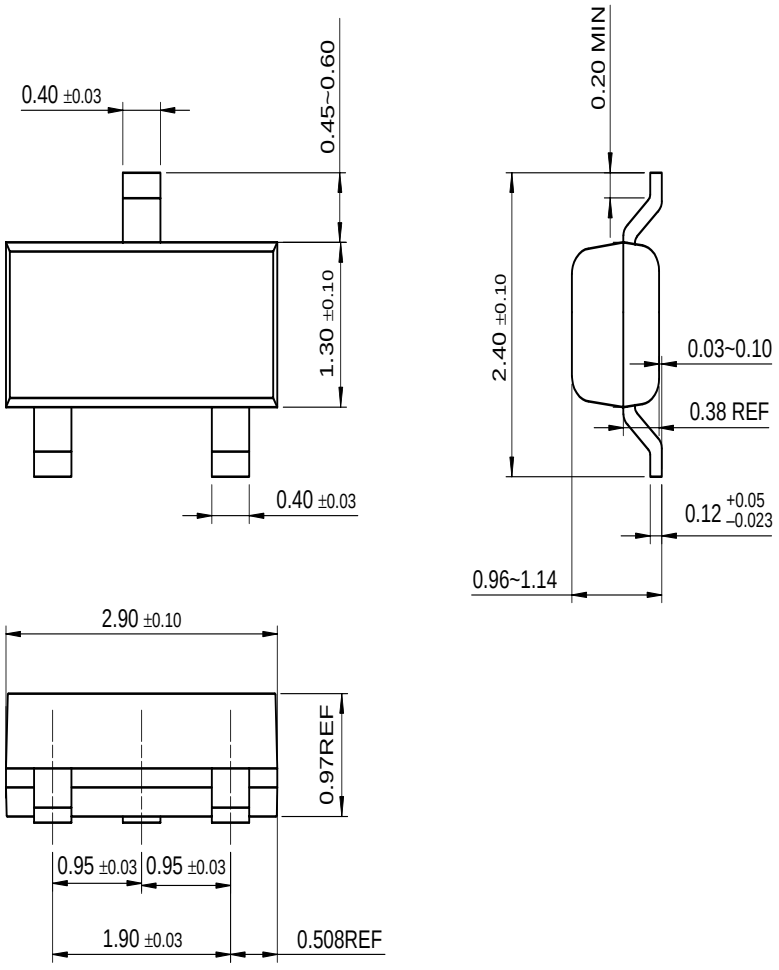
Marking



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Package Dimensions

SOT-23



Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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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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