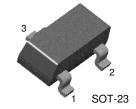


KSC3265

Low Frequency Amplifier

Complement to KSA1298



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	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

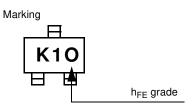
^{*} Refer to KSD261 for graphs

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	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}	DC Current Gain	V _{CE} =1V, I _C =100mA V _{CF} =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

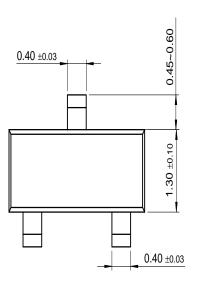
Classification	0	Y	
h _{FE}	100 ~ 200	160 ~ 320	

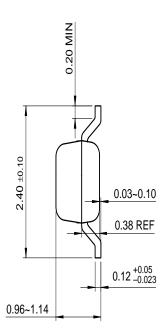


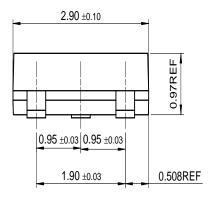
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Package Dimensions

SOT-23







Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCXTM	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET®
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Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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Rev. I1

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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.
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