KSA1298

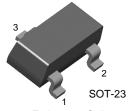
FAIRCHILD

SEMICONDUCTOR

KSA1298

Low Frequency Power Amplifier

Complement to KSC3265



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

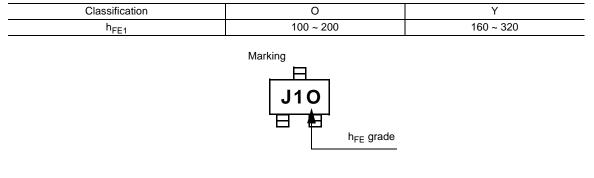
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	-30	V	
V _{CEO}	Collector-Emitter Voltage	-25	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
l _C	Collector Current	-800	mA	
I _B	Base Current	-160	mA	
P _C	Collector Power Dissipation	200	mW	
TJ	Junction Temperature	150	°C	
Т _{STG}	Storage Temperature	-55 ~ 150	°C	

Refer to KSA643 for graphs.

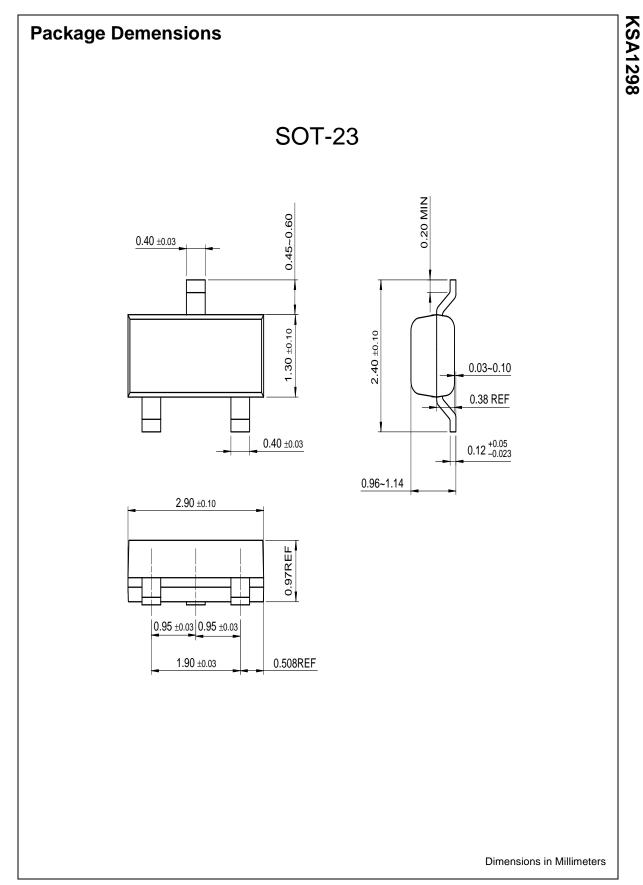
Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

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 _{BE} = -5V, I _C =0			-100	nA
h _{FE1}	DC Current Gain	V _{CE} = -1V, I _C = -100mA	100		320	
h _{FE2}		V_{CE} = -1V, I_{C} = -800mA	40			
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_{FE1} Classification



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