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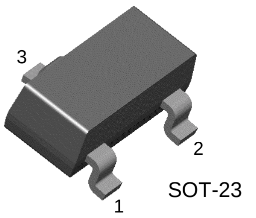
KSA1298

Low Frequency Power Amplifier

- Complement to KSC3265



SOT-23

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
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 KSA643 for graphs.

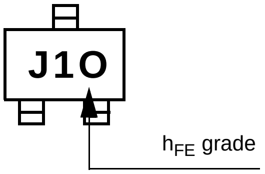
Electrical Characteristics T_a=25°C unless otherwise noted

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_{BE}= -5V, I_C=0			-100	nA
h_{FE1} h_{FE2}	DC Current Gain	V_{CE}= -1V, I_C= -100mA V_{CE}= -1V, 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_{FE1} Classification

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

Marking



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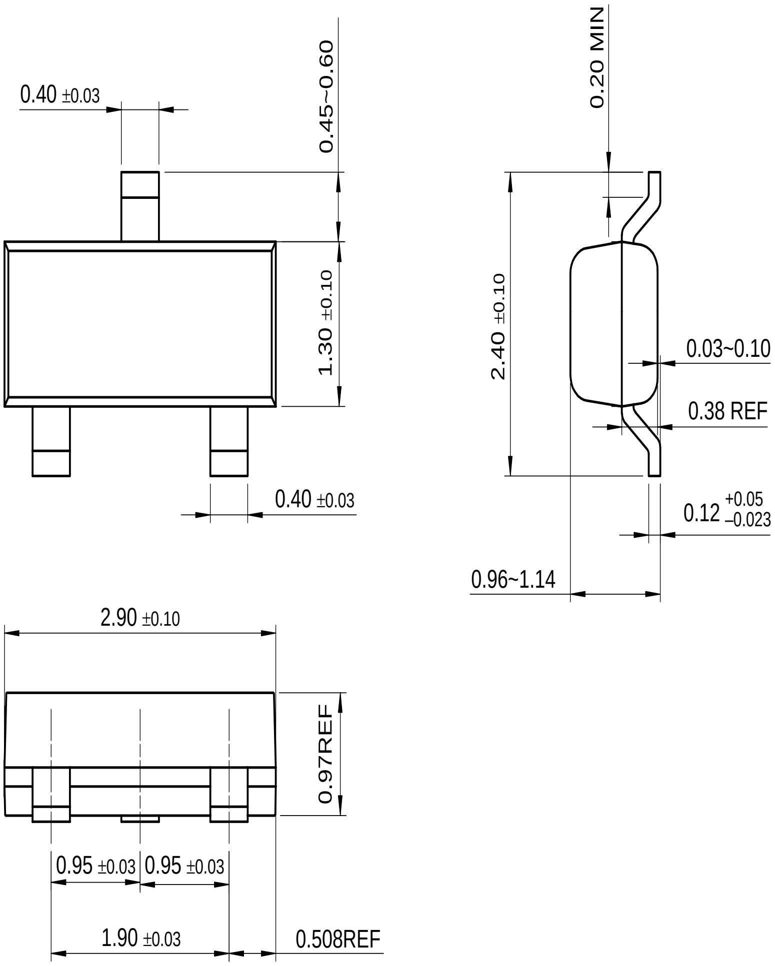
Package Demensions

SOT-23



Dimensions in Millimeters