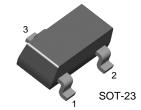


KSA1298

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
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

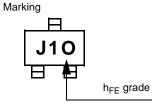
Refer to KSA643 for graphs.

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	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}		$V_{CE} = -1V, I_{C} = -800 \text{mA}$	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

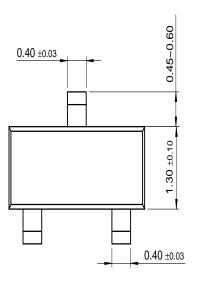
Classification	0	Υ	
h _{FE1}	100 ~ 200	160 ~ 320	

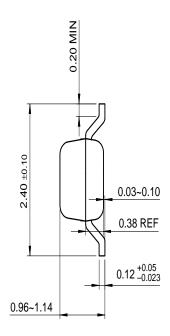


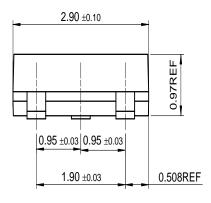
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Package Demensions

SOT-23







Dimensions in Millimeters

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