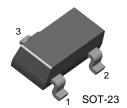


KSA1182

Low Frequency Power Amplifier

Complement to KSC2859



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	-35	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-500	mA
P _C	Collector Power Dissipation	150	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = -35V, I_{E} = 0$			-0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V_{EB} = -5V, I_{C} =0			-0.1	μΑ
h _{FE1}	DC Current Gain	V _{CE} = -1V, I _C = -100mA	70		240	
h _{FE2}		V_{CE} = -6 V , I_{C} = -400 m A	25			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -100mA, I _B = -10mA		-0.1	-0.25	V
V _{BE} (on)	Base-Emitter On Voltage	V_{CE} = -1V , I_{C} = -100mA		-0.8	-1.0	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -20mA		200		MHz
C _{ob}	Output Capacitance	V_{CB} = -6V, I_E = 0, f=1MHz		13		pF

h_{FE} Classification

Classification	0	Y	
h _{FE1}	70 ~ 140	120 ~ 240	

F10
h_{FE} grade

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Typical Characteristics

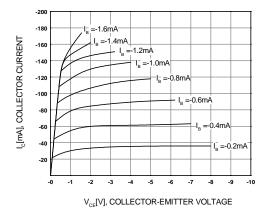


Figure 1. Static Characteristic

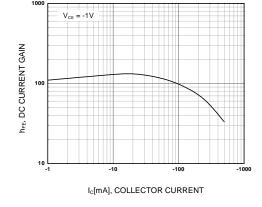


Figure 2. DC current Gain

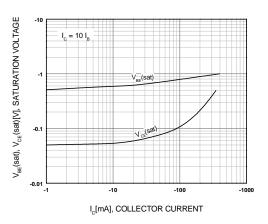


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

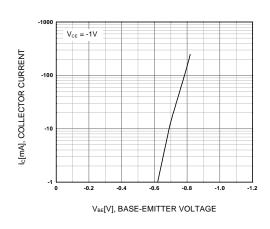


Figure 4. Base-Emitter On Voltage

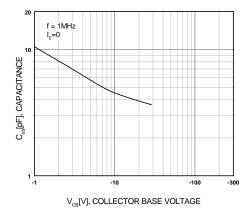
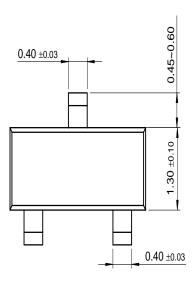


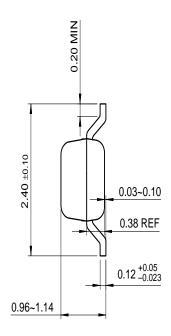
Figure 5. Collector Output Capacitance

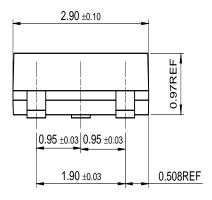
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Package Dimensions

SOT-23







Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS^{TM}	SyncFET™
EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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