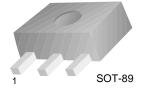


KSA1201

Power Amplifier

- Collector-Emitter Voltage: V_{CEO}= -120V
- f_T=120MHz
- Collector Power Dissipation P_C=1~2W : Mounted on Ceramic Board
- Complement to KSC2881



1. Base 2. Collector 3. Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-800	mA
I _B	Base Current	-160	mA
P _C P _C *	Collector Power Dissipation	500 1,000	mW mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

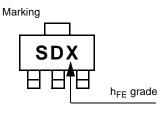
^{*} Mounted on Ceramic Board (250mm2 x 0.8mm)

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	-120			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA, I _C =0	-5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -120V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{BE} = -5V, I _C =0			-100	nA
h _{FE}	DC Current Gain	V_{CE} = -5V, I_{C} = -100mA	80		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I_{C} = -500mA, I_{B} =-50mA			-1.0	V
V _{BE} (on)	Base-Emitter On Voltage	V_{CE} = -5V, I_{C} = -500mA			-1.0	V
f _T	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -100mA		120		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz			30	pF

h_{FE} Classification

Classification	0	Y	
h _{FE}	80 ~ 160	120 ~ 240	



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Typical Characteristics

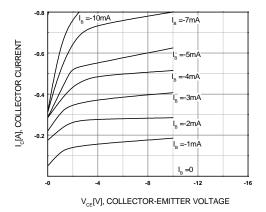


Figure 1. Static Characteristic

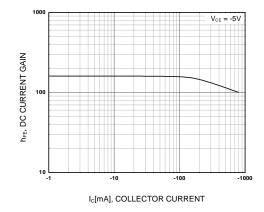


Figure 2. DC current Gain

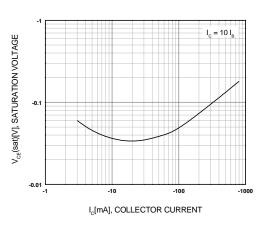


Figure 3. Collector-Emitter Saturation Voltage

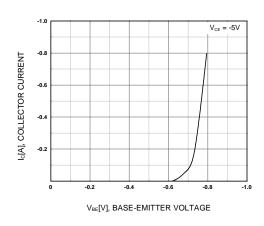


Figure 4. Base-Emitter On Voltage

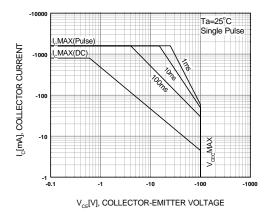


Figure 5. Safe Operating Area

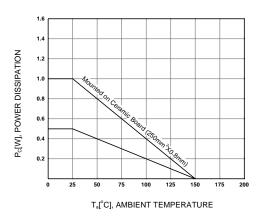
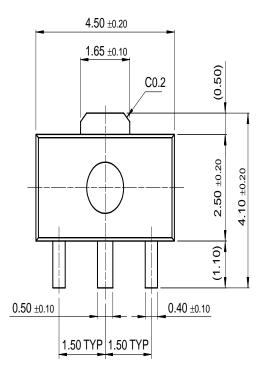


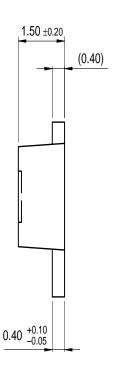
Figure 6. Power Derating

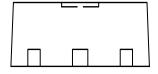
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Package Dimensions

SOT-89







Dimensions in Millimeters

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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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