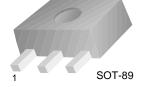


KSC2883

Low Frequency Power Amplifier

- 3W Output Application
- Collector Dissipation : P_C=1~2W in Mounted on Ceramic Board
- Complement to KSA1203



1. Base 2. Collector 3. Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1.5	А
I _B	Base Current	0.3	А
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

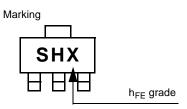
^{*} Mounted on Ceramic Board (250mm²x0.8mm)

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 =10μA, I _B =0	30			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 _{FE}	DC Current Gain	V _{CE} =2V, I _C =500mA	100		320	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =1.5A, I _B =30mA			2.0	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} =2V, I _C =500mA			1.0	V
f _T	Current Gain Bandwidth Product	V _{CE} =2V, I _C =500mA		120		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		40		pF

h_{FE} Classification

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



Typical Characteristics

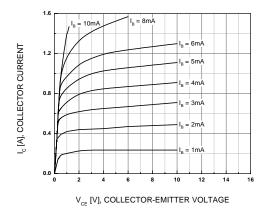


Figure 1. Static Characteristics

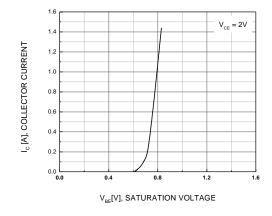


Figure 2. Base-Emitter On Voltage

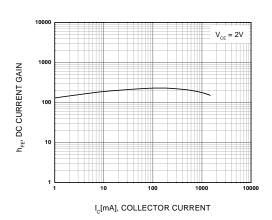


Figure 3. DC Current Gain

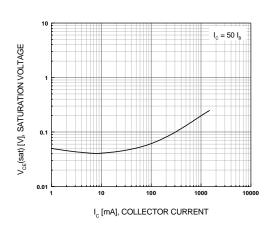


Figure 4. Collector-Emitter Saturation Voltage

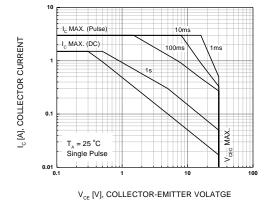


Figure 5. Safe Operating Area

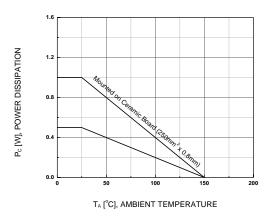
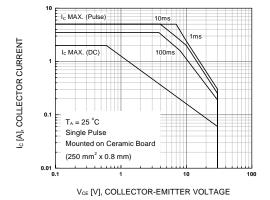


Figure 6. Power Derating

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Typical Characteristics (Continued)



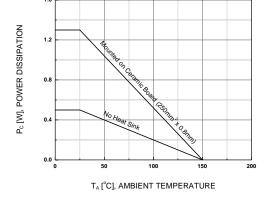
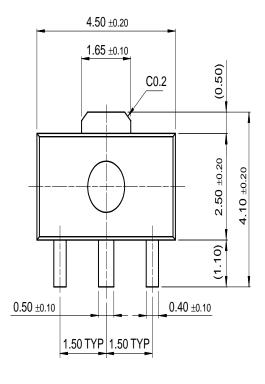
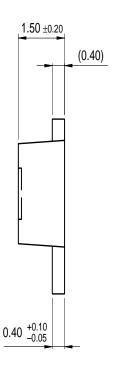


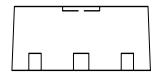
Figure 7. Safe Operating Area

Figure 8. Power Derating

SOT-89







Dimensions in Millimeters

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