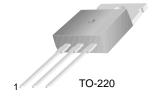


KSA473

Low Frequency Power Amplifier Power Regulator

- Collector Current : I_C = -3A Collector Dissipation : P_C = 10W (T_C =25°C)
- Complement to KSC1173



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Ratings	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	- 3	Α
P _C	Collector Dissipation (T _C =25°C)	10	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -500 \mu A, I_E = 0$	- 30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10 \text{mA}, I_B = 0$	- 30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -1 \text{ mA}, I_C = 0$	- 5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -20V, I_{E} = 0$			- 1.0	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1.0	μΑ
h _{FE1}	DC Current Gain	$V_{CE} = -2V, I_{C} = -0.5A$	70		240	
h _{FE2}		$V_{CE} = -2V, I_{C} = -2.5A$	25			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -2A, I_B = -0.2A$		- 0.3	- 0.8	V
V _{BE} (on)	Base-Emitter ON Voltage	$V_{CE} = -2V, I_{C} = -0.5A$		- 0.75	- 1.0	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -2V, I_{C} = -0.5A$		100		MHz
C _{ob}	Output Capacitance	$V_{CB} = -10V, I_{E} = 0,$ f = 1MHz		40		pF

h_{FE} Classification

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

Typical Characteristics

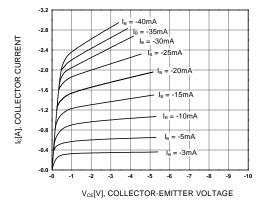


Figure 1. Static Characteristic

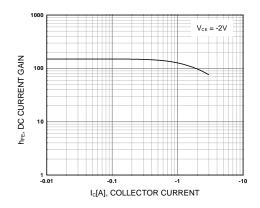


Figure 2. DC current Gain

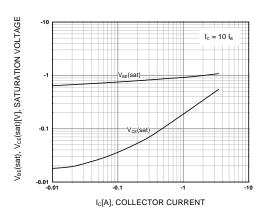


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

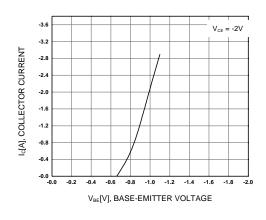


Figure 4. Base-Emitter On Voltage

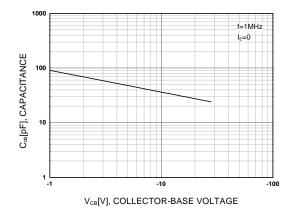
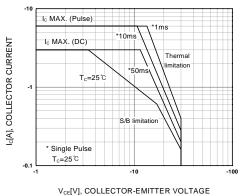


Figure 5. Collector Output Capacitance



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Figure 6. Safe Operating Area

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Typical Characteristics (Continued)

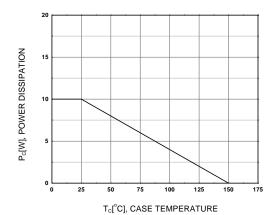
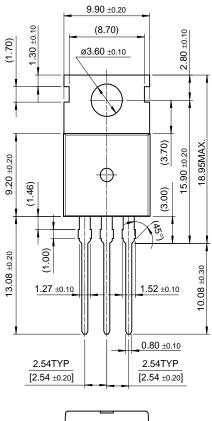
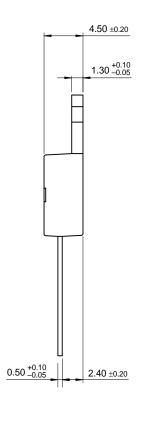


Figure 7. Power Derating

Package Demensions

TO-220





10.00 ±0.20

Dimensions in Millimeters

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