

KSA614

Low Frequency Power Amplifier Power Regulator

- Collector-Base Voltage: V_{CBO}= -80V
 Collector Dissipation: P_C=25W (T_C=25°C)



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	- 80	V
V_{CEO}	Collector- Emitter Voltage	- 55	
V _{EBO}	Emitter- Base Voltage	- 5	V
I _C	Collector Current	- 3	Α
P _C	Collector Dissipation (T _C =25°C)	25	W
TJ	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	$I_C = -500 \mu A, I_E = 0$	- 80			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10 \text{mA}, I_B = 0$	- 55			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -500 \mu A, I_C = 0$	- 5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_{E} = 0$			- 50	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -1A, I_B = -0.1A$		- 0.15	- 0.5	V

h_{FE} Classification

Classification	R	0	Y
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240

Typical Characteristics

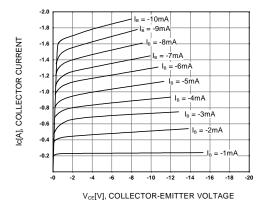


Figure 1. Static Characteristic

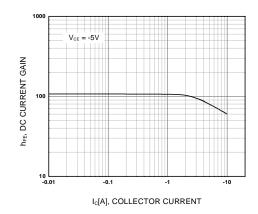


Figure 2. DC current Gain

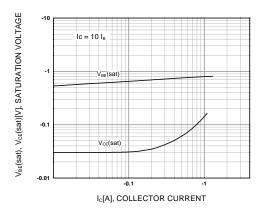


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

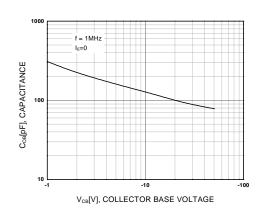


Figure 4. Collector Output Capacitance

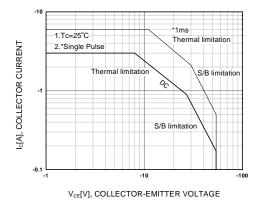


Figure 5. Safe Operating Area

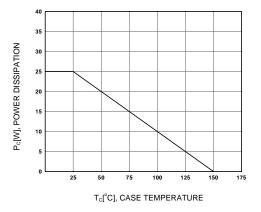
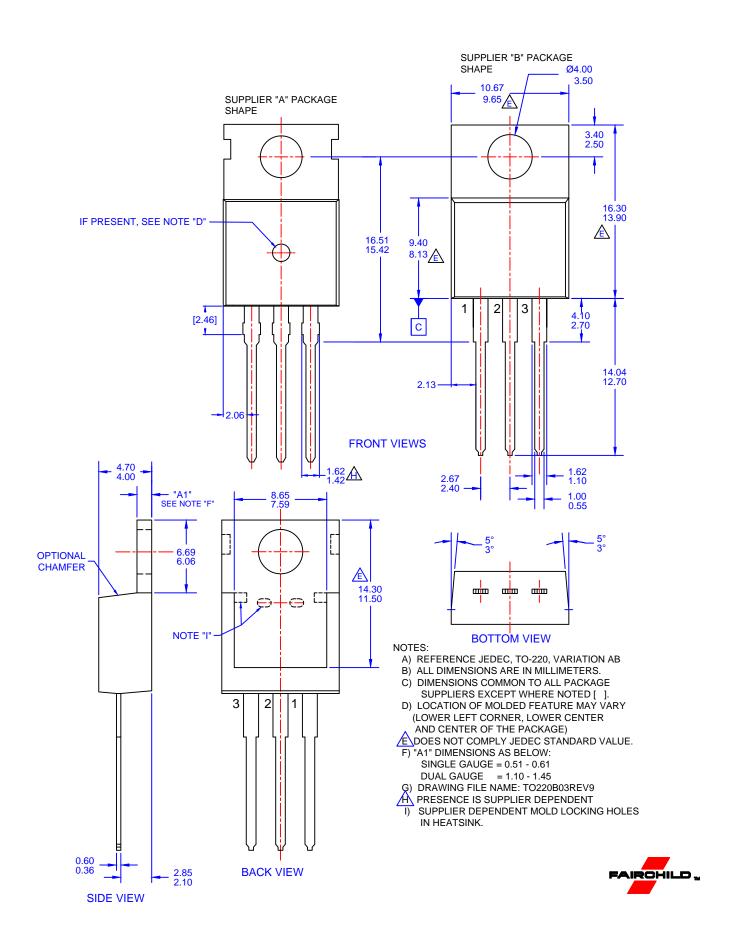


Figure 6. Power Derating

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Definition of Terms				
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