# FAIRCHILD

SEMICONDUCTOR TM

## **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<sub>C</sub>=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V <sub>CBO</sub>	Collector- Base Voltage	- 80	V	
V <sub>CEO</sub>	Collector- Emitter Voltage	- 55	V	
V <sub>EBO</sub>	Emitter- Base Voltage	- 5	V	
I <sub>C</sub>	Collector Current	- 3	A	
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	25	W	
TJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C	

#### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

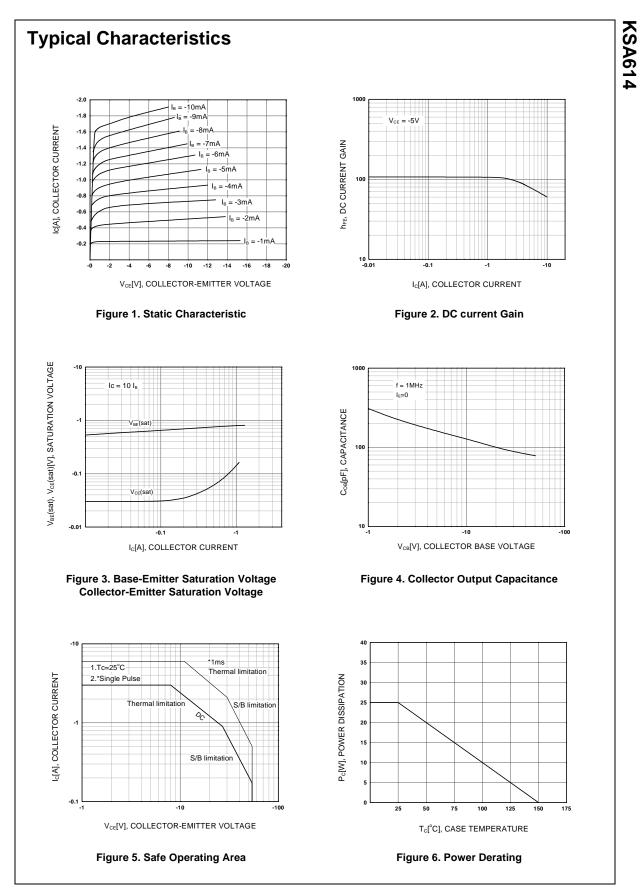
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	$I_{C} = -500 \mu A, I_{E} = 0$	- 80			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = - 10mA, I <sub>B</sub> = 0	- 55			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	$I_{E} = -500 \mu A, I_{C} = 0$	- 5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = - 50V, I <sub>E</sub> = 0			- 50	μΑ
h <sub>FE</sub>	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$	40		240	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 1A, I <sub>B</sub> = - 0.1A		- 0.15	- 0.5	V

### h<sub>FE</sub> Classification

Classification	R	0	Y
h <sub>FE</sub>	40 ~ 80	70 ~ 140	120 ~ 240

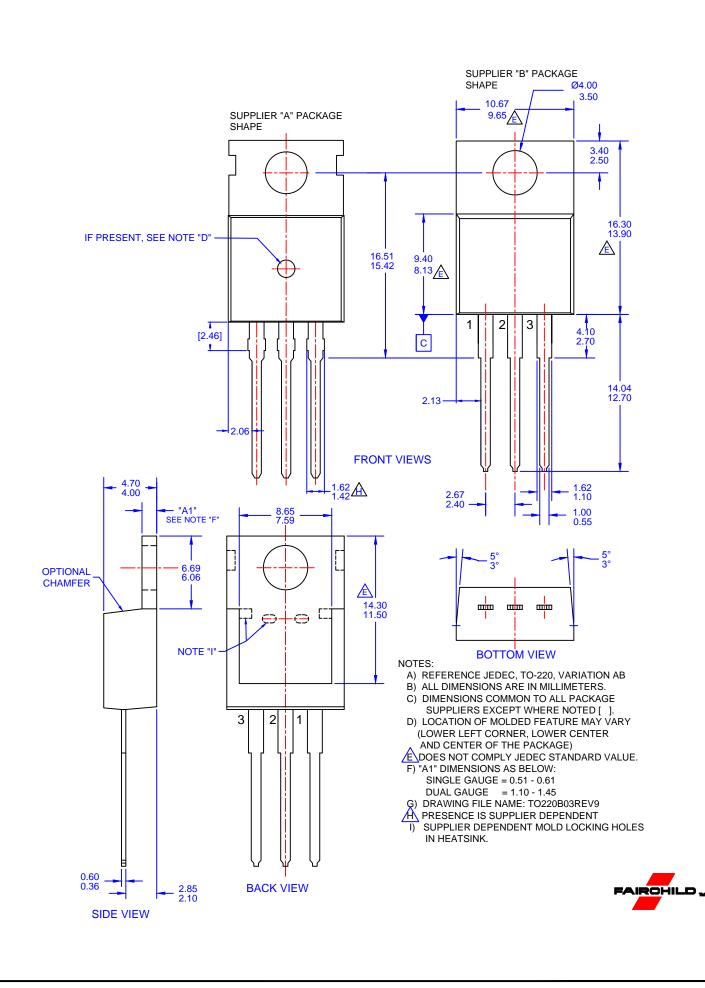
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