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KSB596



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#### **Power Amplifier Applications**

Complement to KSD526



1.Base 2.Collector 3.Emitter

## **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings  $T_{C}=25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	- 80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 80	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 5	V
I <sub>C</sub>	Collector Current(DC)	- 4	А
I <sub>B</sub>	Base Current	- 0.4	А
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	30	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

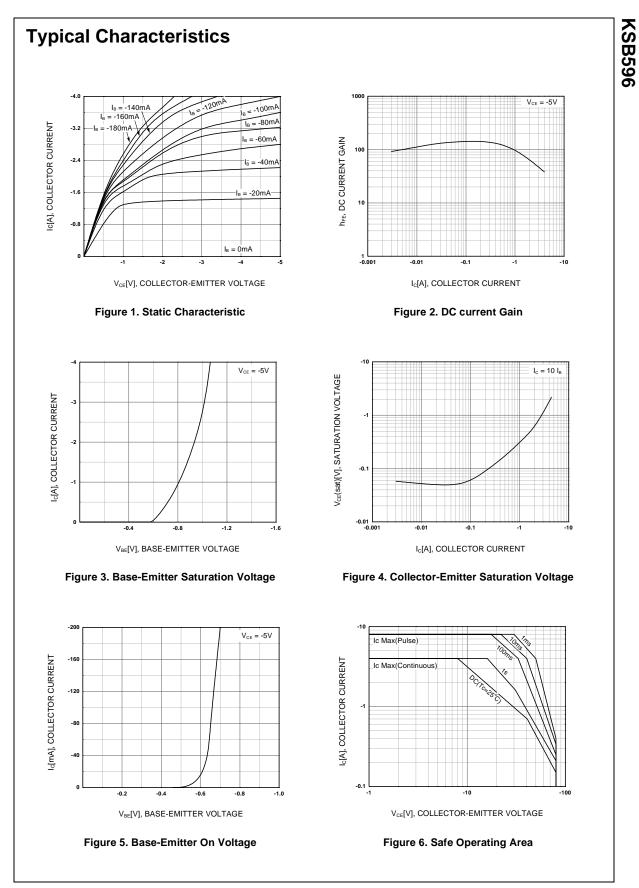
#### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = - 50mA, I <sub>B</sub> = 0	- 80			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = - 10mA, I <sub>C</sub> = 0	- 5			V
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -80V, I_E = 0$			- 70	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 100	μΑ
h <sub>FE1</sub>	DC Current Gain	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 0.5A	40		240	
h <sub>FE2</sub>		$V_{CE} = -5V, I_{C} = -3A$	15			
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 3A, I <sub>B</sub> = - 0.3A		- 1	- 1.7	V
V <sub>BE</sub> (on)	Base-Emitter ON Voltage	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 3A		- 1	- 1.5	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = - 5V, I <sub>C</sub> = - 0.5A	3			MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = - 10V, I <sub>E</sub> = 0 f = 1MHz		130		pF

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

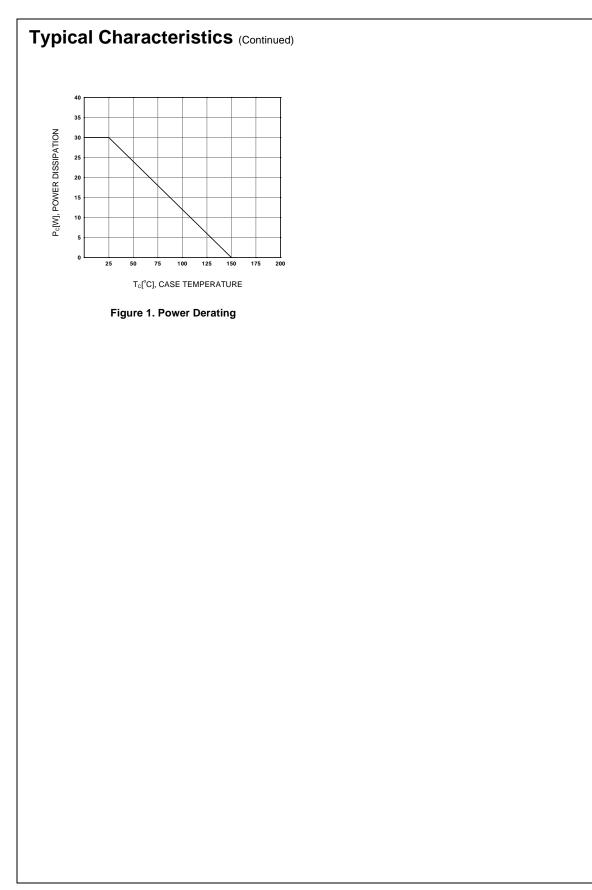
Classification	R	0	Y
h <sub>FE1</sub>	40 ~ 80	70 ~ 140	120 ~ 240

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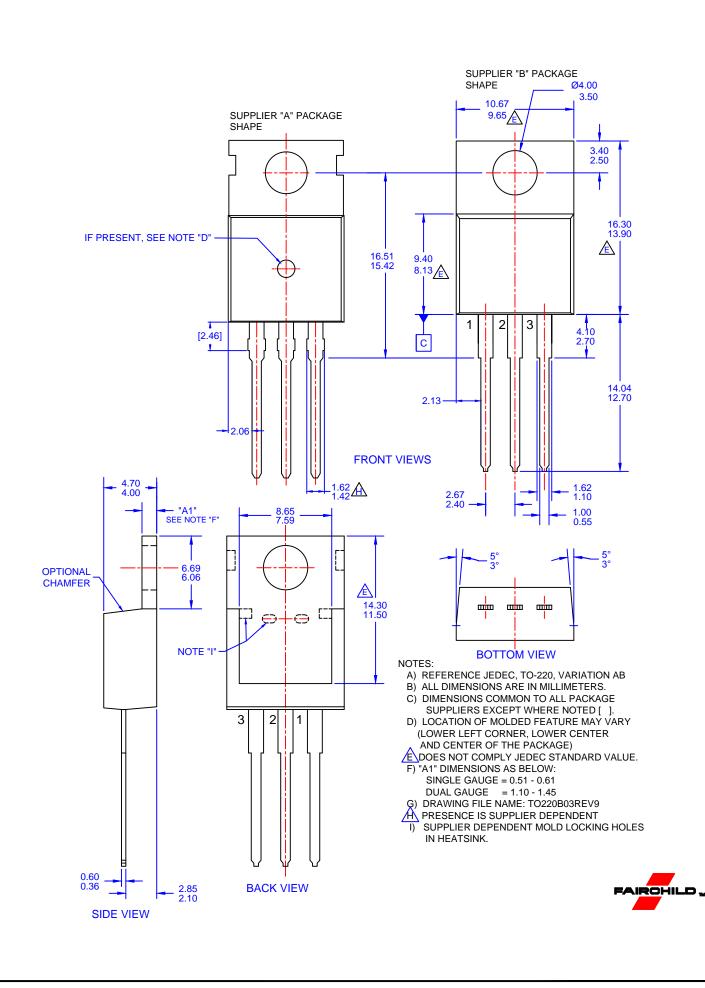
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