# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SEMICONDUCTOR TM

# **KSD288**

### **Power Regulator** Low Frequency High Power Amplifier

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



1.Base 2.Collector 3.Emitter

# **NPN Epitaxial Silicon Transistor**

Absolute Maximum Ratings T<sub>C</sub>=25°C unless otherwise noted

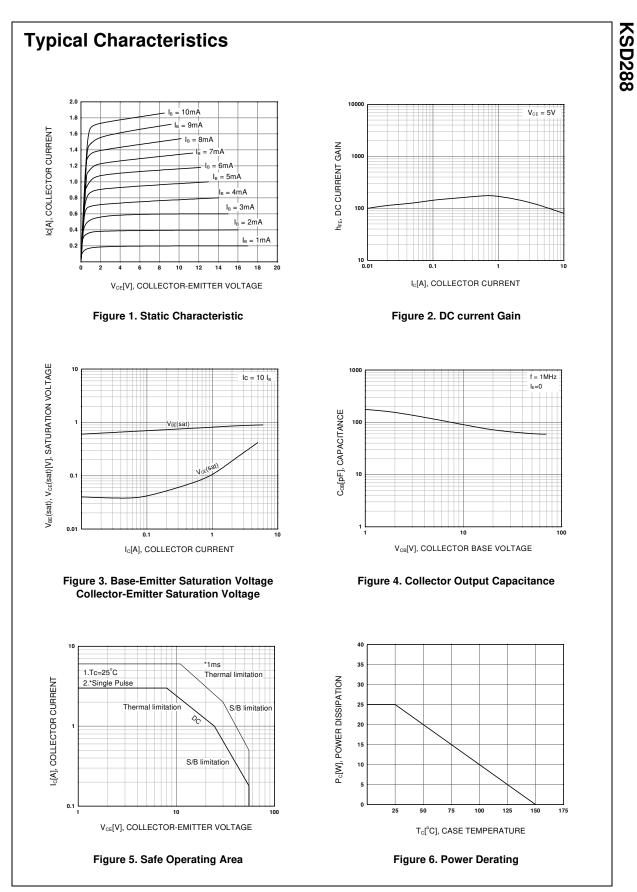
Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	80	V
V <sub>CEO</sub>	Collector-Emitter Voltage	55	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current	3	Α
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	25	W
TJ	Junction Temperature	150	°C
T <sub>STG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

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

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =500μA, I <sub>E</sub> =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 <sub>E</sub> =500μA, I <sub>C</sub> =0	5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> =50V,I <sub>E</sub> =0			50	μA
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> =5V,I <sub>C</sub> =0.5A	40		240	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> =1A, I <sub>B</sub> =0.1A			1	V

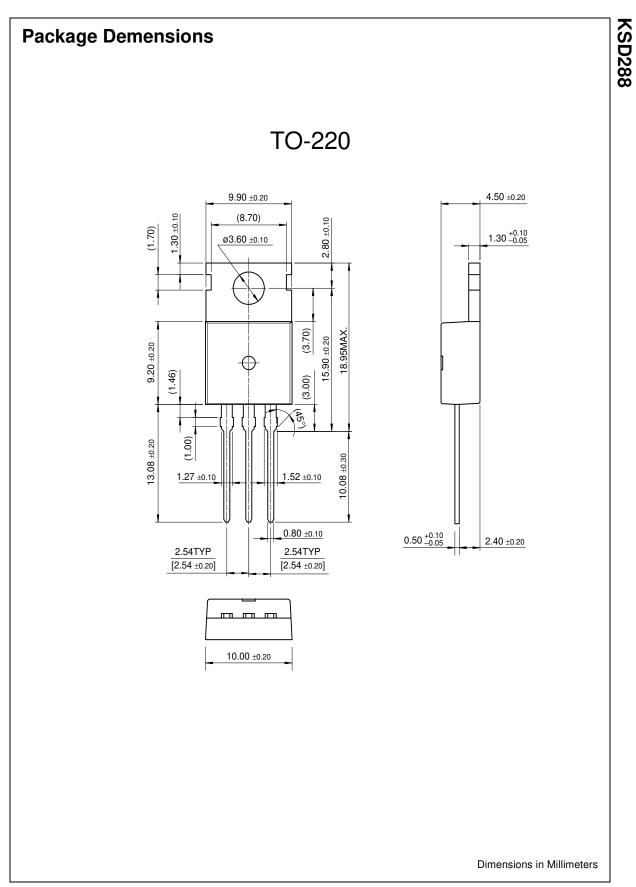
# h<sub>FE</sub> Classification

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



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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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