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!



Contact us

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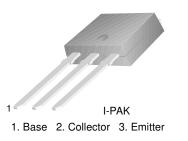
FAIRCHILD

SEMICONDUCTOR®

KSD1222

Power Amplifier Applications High DC Current Gain

- Low Collector-Emitter Saturation Voltage
- Built in a Damper Diode at E-C
- Darlington TR
- Complement to KSB907



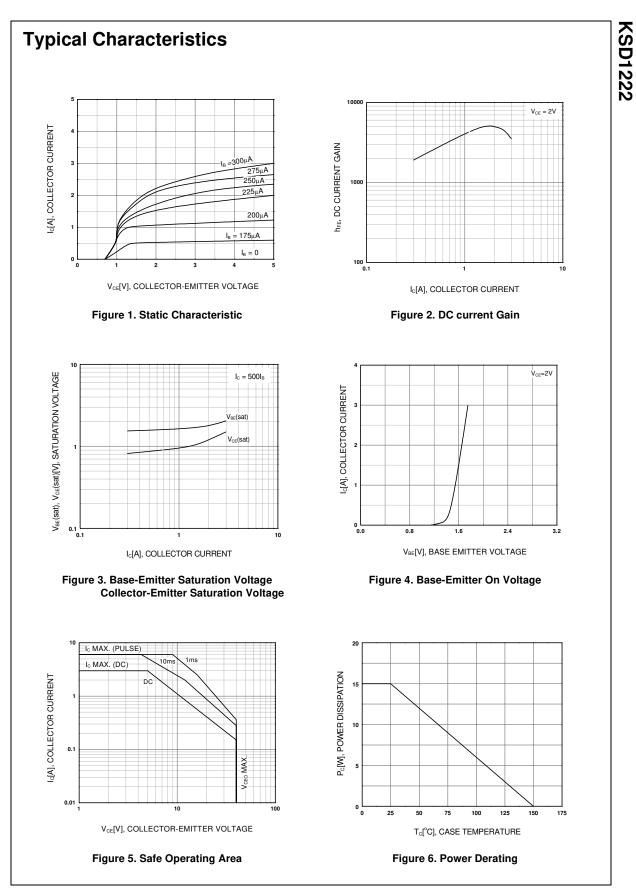
NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	40	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	3	Α
I _B	Base Current	0.3	Α
P _C	Collector Dissipation (T _C =25°C)	15	W
	Collector Dissipation (T _a =25°C)	1	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

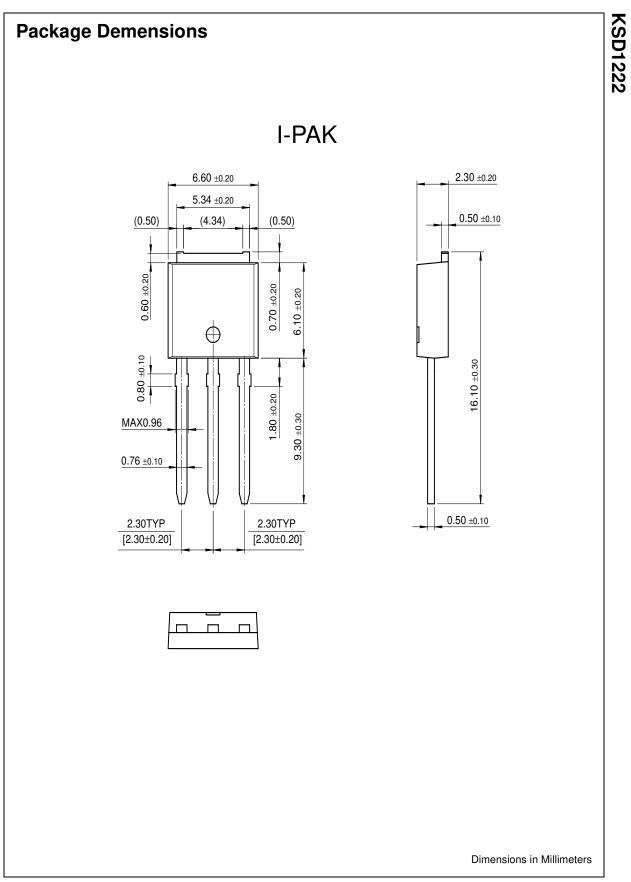
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 25mA, I _B = 0	40			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 60V, I_E = 0$			20	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$			2.5	mA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = 2V, I_C = 1A$ $V_{CE} = 2V, I_C = 3A$	2000 1000			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 2A, I _B = 4mA			1.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 2A, I _B = 4mA			2	V
t _{ON}	Turn On Time	$V_{CC} = 30V, I_{C} = 3A$		0.1		μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = 6mA$		1		μs
t _F	Fall Time	$R_L = 10\Omega$		0.2		μs



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Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.