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

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



FAIRCHILD

SEMICONDUCTOR TM

KSD73

Low Frequency High Power Amplifier

- Collector-Base Voltage : V_{CBO} = 100V
- Collector Current : $I_C = 5A$ Collector Dissipation : $P_C = 30W (T_C=25^{\circ}C)$



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	100	V	
V _{CEO}	Collector-Emitter Voltage	60	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	5	Α	
P _C	Collector Dissipation (T _C =25°C)	30	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

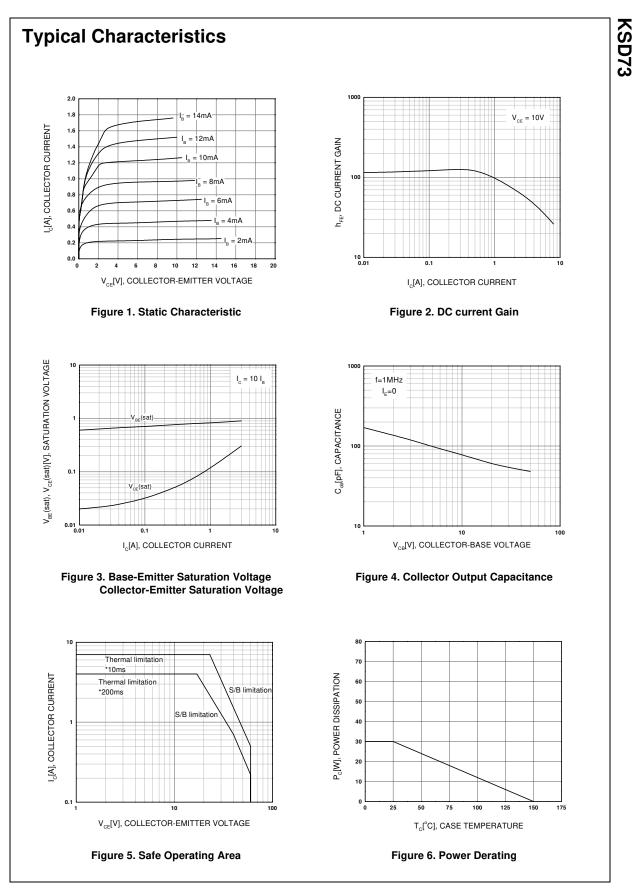
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = 1mA, I _E = 0	100			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 20mA, I _B = 0	60			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA, I _C = 0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 100V, I _E = 0			5	mA
h _{FE}	DC Current Gain	V _{CE} = 10V, I _C = 1.0A	70		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A, I _B = 0.5A			2.0	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A, I _B = 0.5A			1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = 10V, I _C = 0.3A		20		MHz
V _{BE} (on)	Base-Emitter ON Voltage	V _{CE} = 10V, I _E = 1.0A		0.75		V

h_{FE} Classification

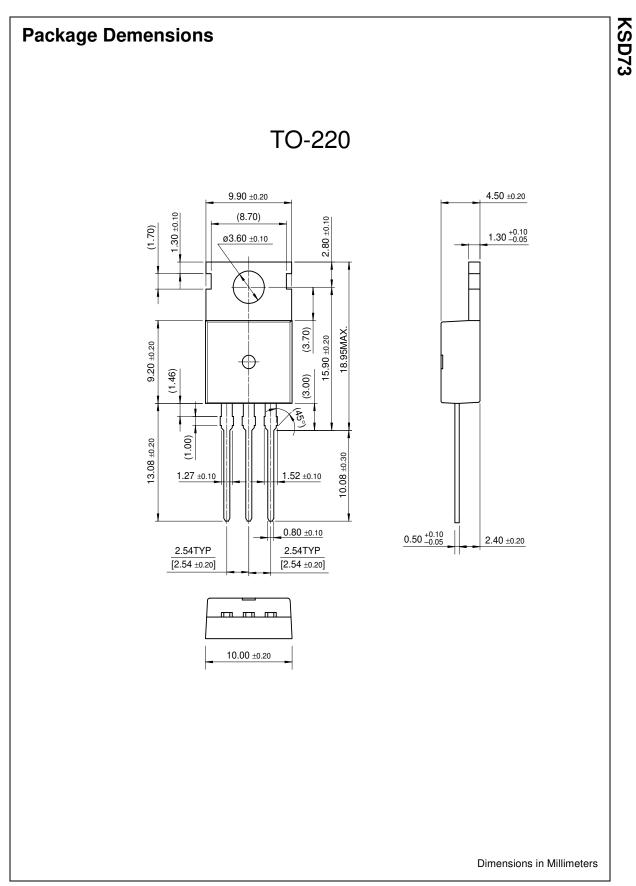
Classification	0	Y	
h _{FE}	70 ~ 140	120 ~ 240	

KSD73



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PRODUCT STATUS DEFINITIONS

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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