FAIRCHILD

SEMICONDUCTOR TM

KSD363

B/W TV Horizontal Deflection Output

- + Collector-Base Voltage : V_{CBO} =300V + Collector Current : I_C=6A
- Collector Dissipation : $P_C=40W(T_C=25^{\circ}C)$



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

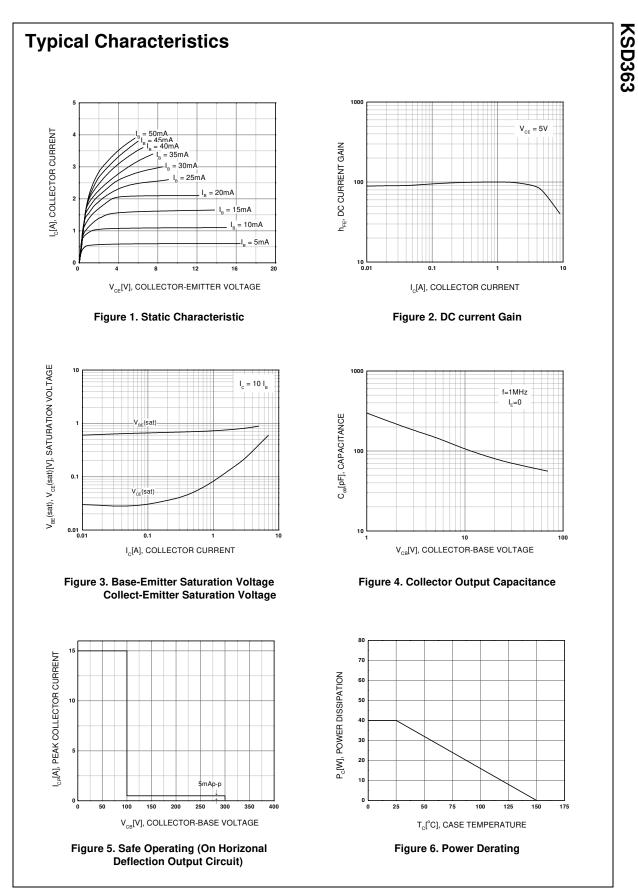
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	300	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	8	V	
I _C	Collector Current	6	A	
P _C	Collector Dissipation (T _C =25°C)	40	W	
Tj	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

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	300			V	
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = 20mA, I _B = 0	120			V	
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = 1mA, I _C = 0	8			V	
I _{CBO}	Collector Cut-off Current	V _{CB} = 250V, I _E = 0			1	mA	
h _{FE}	DC Current Gain	V _{CE} = 5V, I _C = 1A	40		240		
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 0.1A			1	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 1A, I _B = 0.1A			1.5	V	
f _T	Current Gain Bandwidth Product	V _{CE} = 5V, I _C = 0.5A		10		MHz	

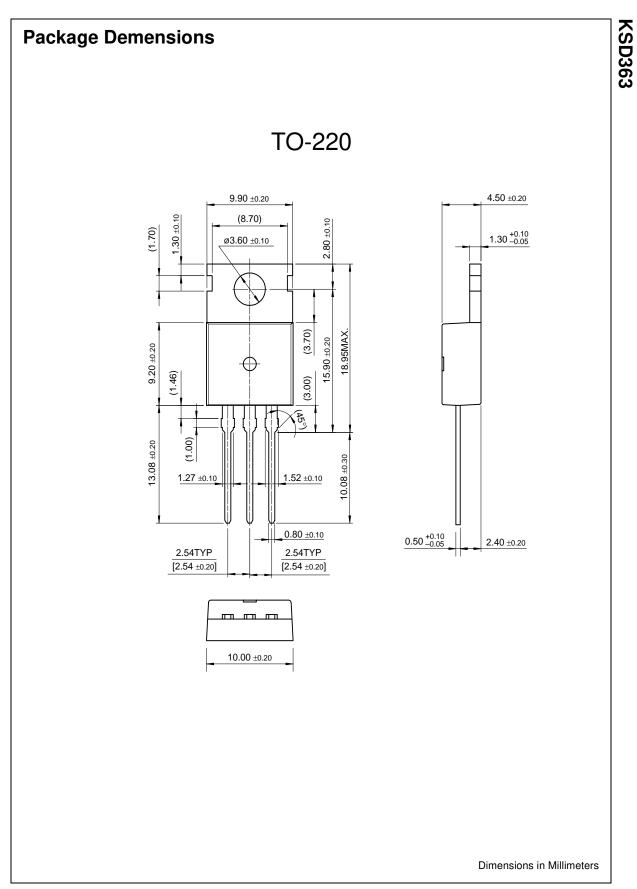
h_{FE} Classification

Classification	R	0	Y	
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240	



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Rev. A, February 2000



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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.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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.



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KSD363 NPN Epitaxial Silicon Transistor

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Features

- Collector-Base Voltage: V_{CBO}=300V
- Collector Current: I_C=6A
- Collector Dissipation: P_C=40W (T_C=25°C)

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Applications

B/W TV Horizontal Deflection Output

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Product status/pricing/packaging



Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**	
KSD363O	Full Production	Full Production	\$0.434	<u>TO-220</u>	3	BULK	Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-O	
KSD363OTU	Full Production	Full Production	\$0.434	<u>TO-220</u>	3	BULK	Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-O	

Related Links

- Request samples
- How to order products
- Product Change Notices (PCNs)
- <u>Support</u>
- Sales support
- Quality and reliability
- Design center

KSD363R	Full Production	Full Production	\$0.434	<u>TO-220</u>	3		Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-R
KSD363RTU	Full Production	Full Production	\$0.434	<u>TO-220</u>	3		Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-R
KSD363Y	Full Production	Full Production	\$0.434	<u>TO-220</u>	3	BULK	Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-Y
KSD363YTU	Full Production	Full Production	\$0.434	<u>TO-220</u>	3		Line 1: \$Y (Fairchild logo) Line 2: &3 Line 3: D363-Y

* Fairchild 1,000 piece Budgetary Pricing ** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a <u>Fairchild distributor</u> to obtain samples

1 Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product KSD363 is available. Click here for more information .

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Qualification Support

Click on a product for detailed qualification data

Product
<u>KSD3630</u>
KSD363OTU
KSD363R
KSD363RTU
<u>KSD363Y</u>
KSD363YTU

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