FAIRCHILD

SEMICONDUCTOR TM

KSD362

B/W TV Horizontal Deflection Output

- Collector-Base Voltage : V_{CBO} =150V
- Collector Current : I_C=5A
- Collector Dissipation : P_C=40W(T_C=25°C)



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

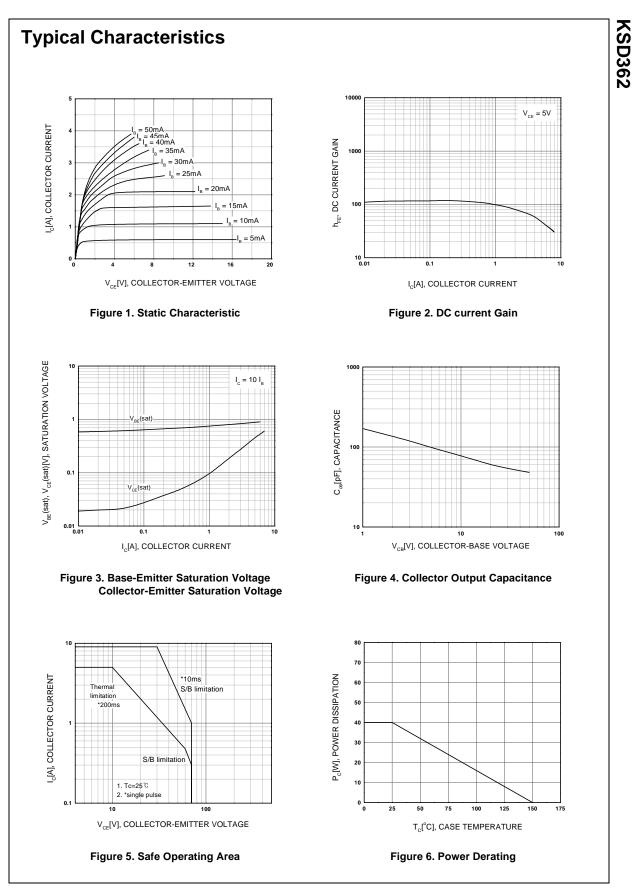
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	150	V	
V _{CEO}	Collector-Emitter Voltage	70	V	
V _{EBO}	Emitter-Base Voltage	8	V	
I _C	Collector Current	5	А	
P _C	Collector Dissipation (T _C =25°C)	40	W	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	- 55 ~ 150	°C	

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = 1$ mA, $I_{\rm E} = 0$	150			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 2mA, R_{BE} = \infty$	70			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = 1$ mA, $I_{\rm C} = 0$	8			V
I _{CBO}	Collector Cut-off Current	V _{CB} = 100V, I _E = 0			20	μA
h _{FE}	DC Current Gain	$V_{CE} = 5V, I_{C} = 5A$	20		140	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 5A, I _B = 0.5A			1	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_{\rm C} = 5$ A, $I_{\rm B} = 0.5$ A			1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = 5V, I _C = 0.5A		10		MHz

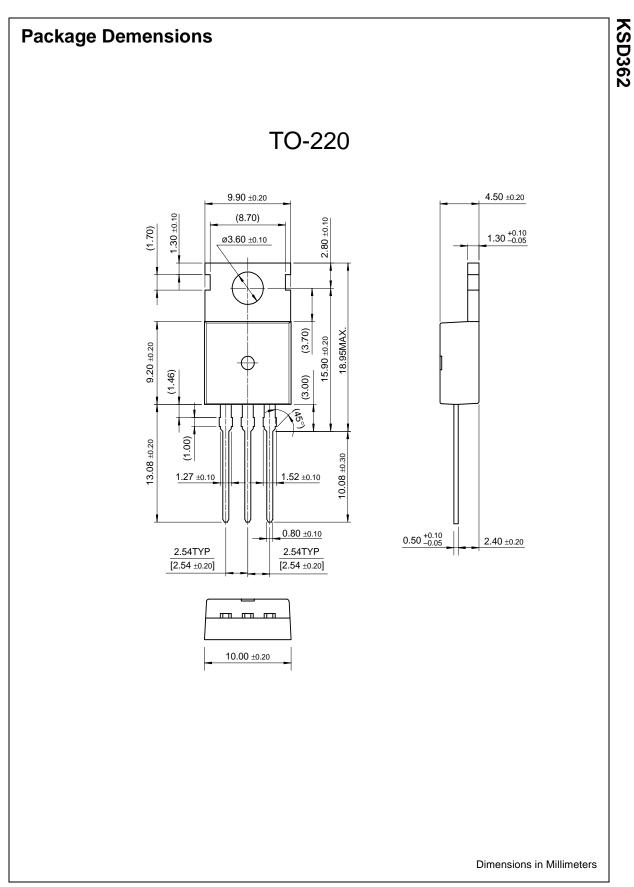
h_{FE} Classification

Classification	Ν	R	0
h _{FE}	20 ~ 50	40 ~ 80	70 ~ 140



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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.
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- Applications

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B/W TV Horizontal Deflection Output

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSD362RTU	Full Production	\$0.353	TO-220	3	RAIL
KSD362N	Full Production	\$0.353	TO-220	3	BULK
KSD362R	Full Production	\$0.353	TO-220	3	BULK

* 1,000 piece Budgetary Pricing

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