# FAIRCHILD

SEMICONDUCTOR TM

## **KSD362**

## **B/W TV Horizontal Deflection Output**

- Collector-Base Voltage :  $V_{CBO}$ =150V
- Collector Current : I<sub>C</sub>=5A
- Collector Dissipation : P<sub>C</sub>=40W(T<sub>C</sub>=25°C)



1.Base 2.Collector 3.Emitter

## **NPN Epitaxial Silicon Transistor**

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

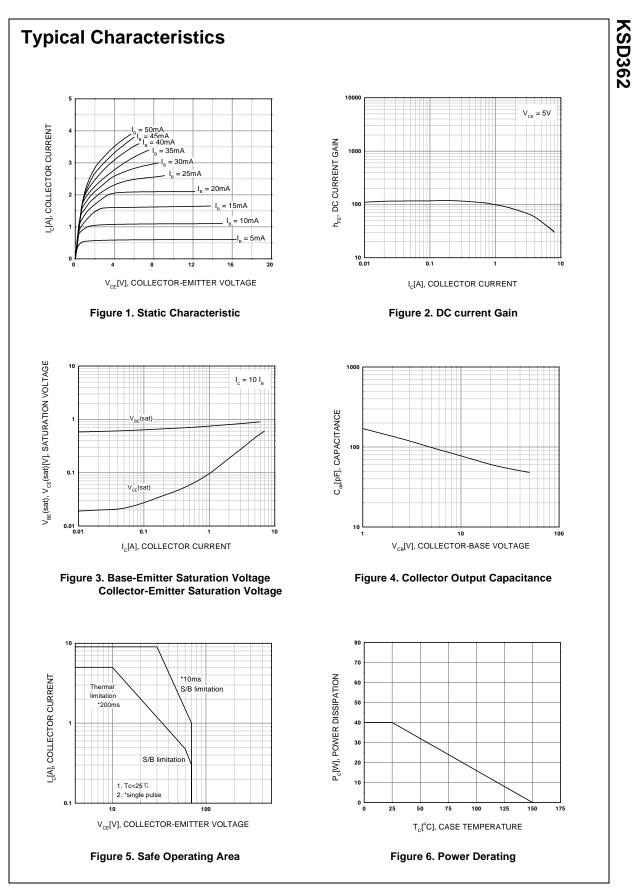
Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	150	V
V <sub>CEO</sub>	Collector-Emitter Voltage	70	V
V <sub>EBO</sub>	Emitter-Base Voltage	8	V
I <sub>C</sub>	Collector Current	5	A
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	40	W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

### Electrical Characteristics T<sub>C</sub>=25°C unless otherwise noted

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

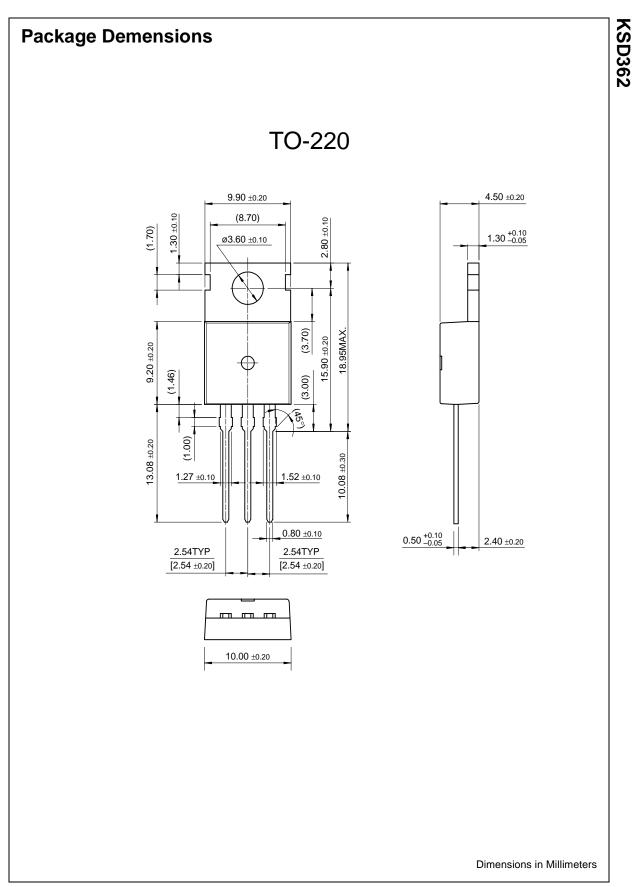
## h<sub>FE</sub> Classification

Classification	Ν	R	0	
h <sub>FE</sub>	20 ~ 50	40 ~ 80	70 ~ 140	



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