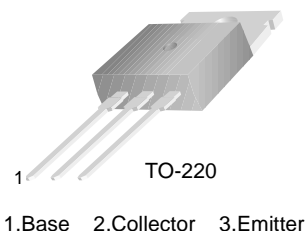


# KSD362

KSD362

## B/W TV Horizontal Deflection Output

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



## NPN Epitaxial Silicon Transistor

### Absolute Maximum Ratings $T_C=25^{\circ}C$ 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	A
$P_C$	Collector Dissipation ( $T_C=25^{\circ}C$ )	40	W
$T_J$	Junction Temperature	150	$^{\circ}C$
$T_{STG}$	Storage Temperature	- 55 ~ 150	$^{\circ}C$

### Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
$BV_{CBO}$	Collector-Base Breakdown Voltage	$I_C = 1mA, I_E = 0$	150			V
$BV_{CEO}$	Collector-Emitter Breakdown Voltage	$I_C = 2mA, R_{BE} = \infty$	70			V
$BV_{EBO}$	Emitter-Base Breakdown Voltage	$I_E = 1mA, I_C = 0$	8			V
$I_{CBO}$	Collector Cut-off Current	$V_{CB} = 100V, I_E = 0$			20	$\mu A$
$h_{FE}$	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	$I_C = 5A, I_B = 0.5A$			1.5	V
$f_T$	Current Gain Bandwidth Product	$V_{CE} = 5V, I_C = 0.5A$		10		MHz

## $h_{FE}$ Classification

Classification	N	R	O
$h_{FE}$	20 ~ 50	40 ~ 80	70 ~ 140

# Typical Characteristics

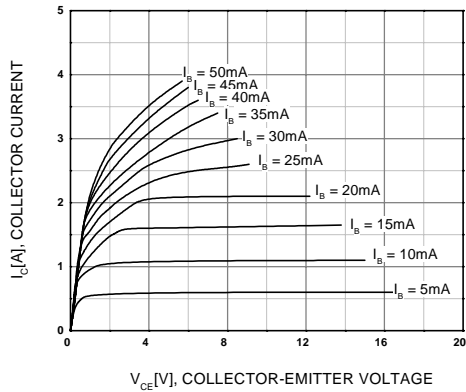


Figure 1. Static Characteristic

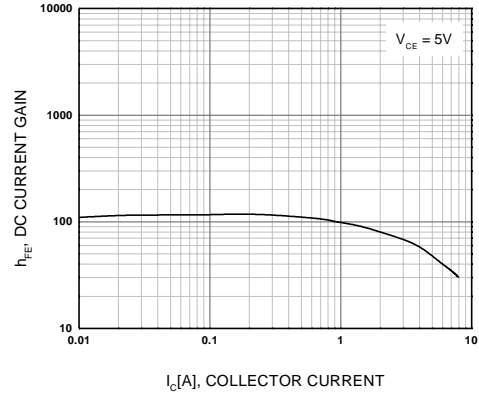


Figure 2. DC current Gain

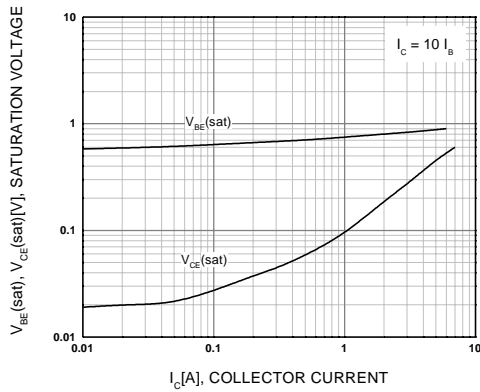


Figure 3. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

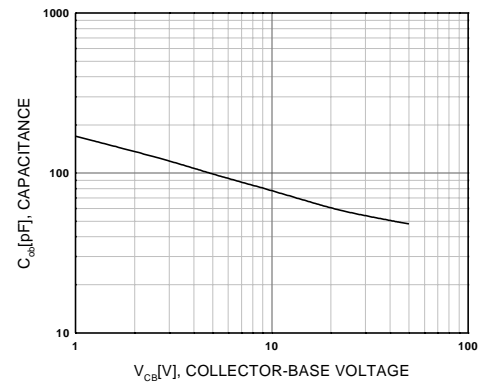


Figure 4. Collector Output Capacitance

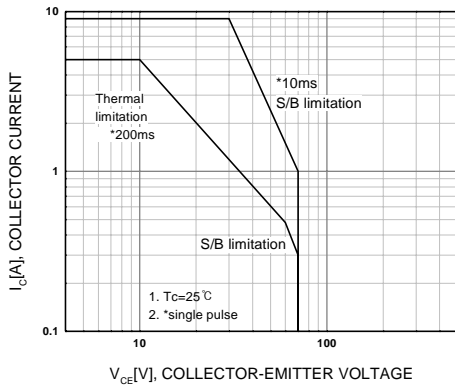


Figure 5. Safe Operating Area

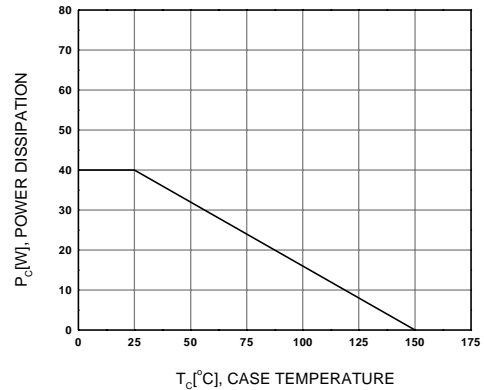
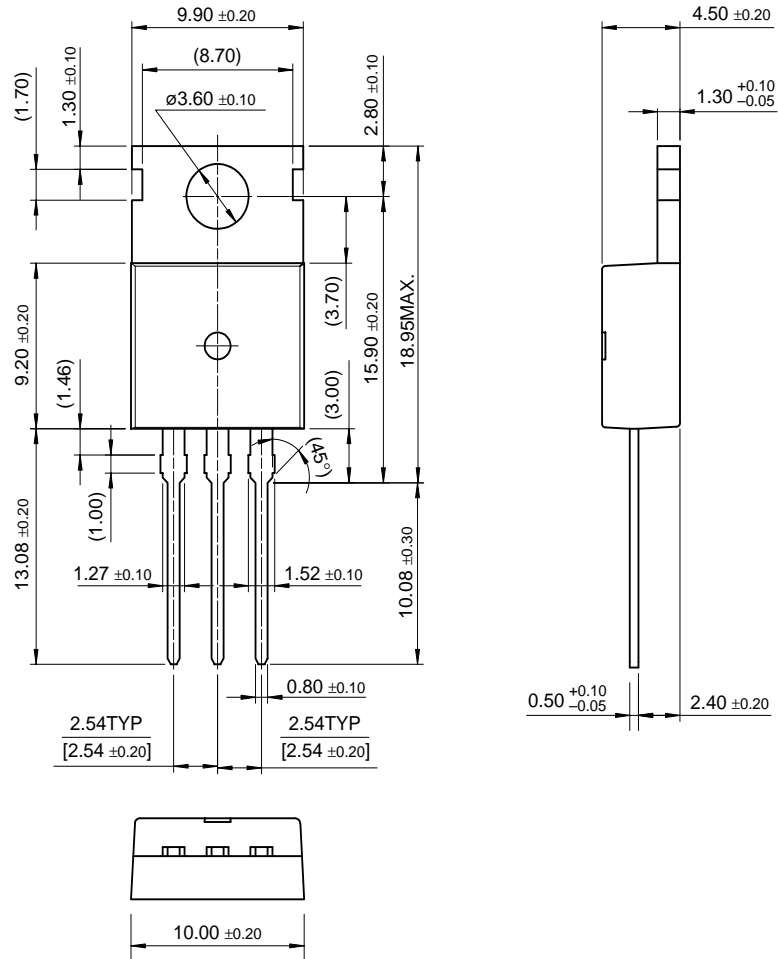


Figure 6. Power Derating

# Package Dimensions

## TO-220



Dimensions in Millimeters

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