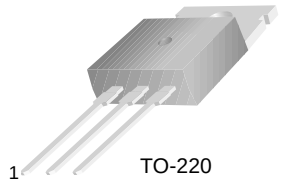
FAIRCHILD
SEMICONDUCTOR TM

KSB546

TV Vertical Deflection Output

- Collector-Base Voltage : V_{CBO} = -200V
- Collector Current : I_C = -2A
- Collector Dissipation : P_C= 25W (T_C=25°C)
- Complement to KSD401



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1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	- 200	V
V_{CEO}	Collector-Emitter Voltage	- 150	V
V_{EBO}	Emitter-Base Voltage	- 5	V
I_C	Collector Current(DC)Y	- 2	A
P_C	Collector Dissipation (T_C=25°C)	25	W
T_J	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.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C = - 500μA, I_E = 0	- 200			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C = - 10mA, I_B = 0	- 150			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E = - 500uA, I_C = 0	- 5			V
I_{CBO}	Collector Cut-off Current	V_{CB} = - 150V, I_E = 0			- 50	μA
h_{FE}	DC Current Gain	V_{CE} = - 10V, I_E = - 0.4A	40		240	
V_{CE}(sat)	Collector-Emitter Saturation Voltage	I_C = - 500mA, I_B = - 50mA			- 1	V
f_T	Current Gain Bandwidth Product	V_{CE} = - 10V, I_C = - 0.4A		5		MHz

h_{FE} Classification

Classification	R	O	Y
h_{FE}	40 ~ 80	70 ~ 140	120 ~ 240

Typical Characteristics

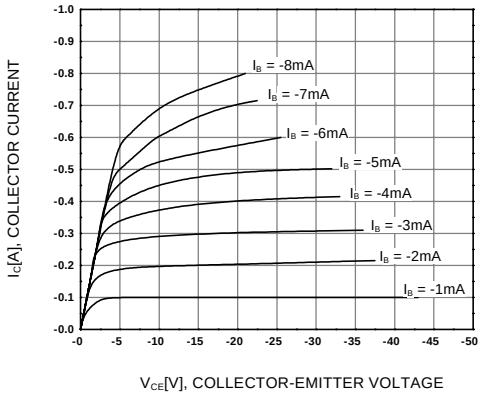

Figure 1. Static Characteristic

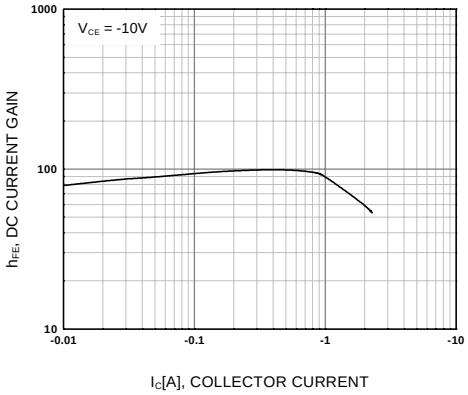

Figure 2. DC current Gain

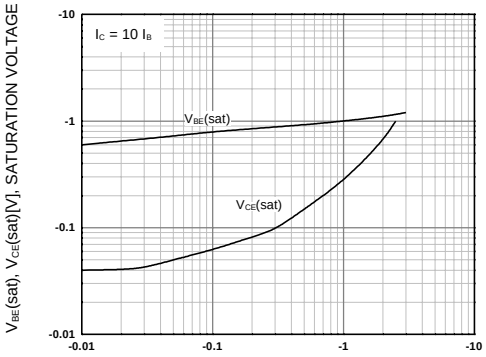

Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

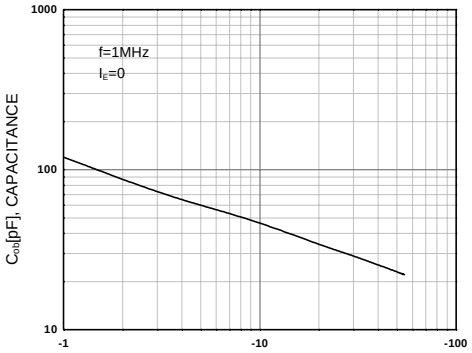

Figure 4. Collector Output Capacitance

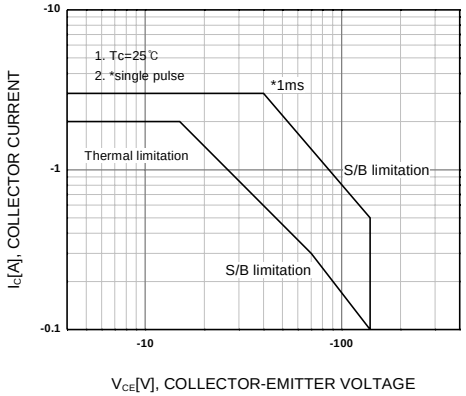

Figure 5. Safe Operating Area

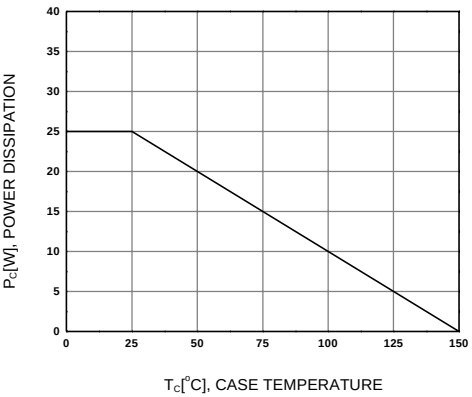

Figure 6. Power Derating

Package Demensions

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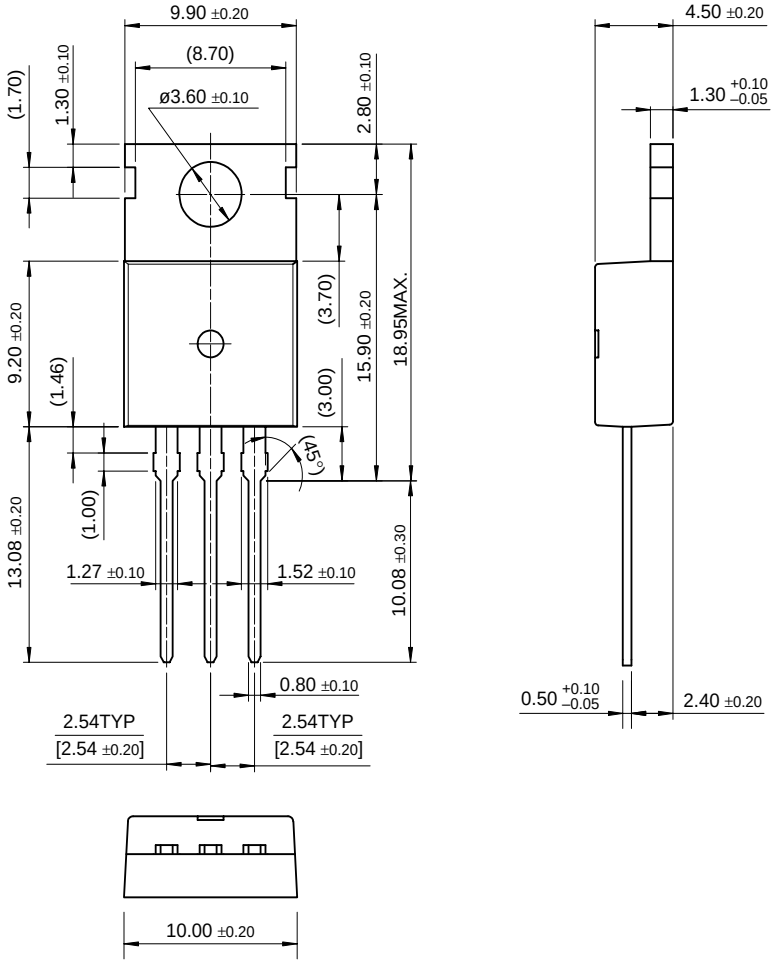

Dimensions in Millimeters

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