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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



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	А
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 $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = -500 \mu A, I_E = 0$	- 200			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10 \text{mA}, I_B = 0$	- 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	μА
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_{E} = -0.4A$	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$			- 1	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -0.4A$		5		MHz

h_{FE} Classification

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

Typical Characteristics

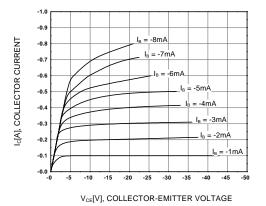


Figure 1. Static Characteristic

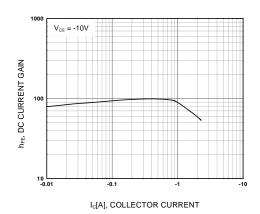


Figure 2. DC current Gain

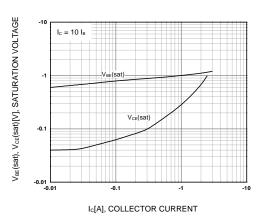


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

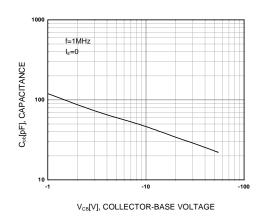


Figure 4. Collector Output Capacitance

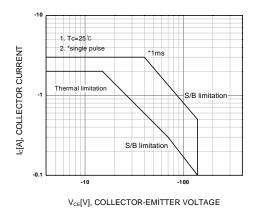


Figure 5. Safe Operating Area

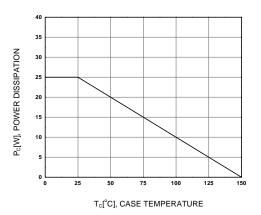


Figure 6. Power Derating

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