

KSA1370

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Crt Display, Video Output

- High Voltage
- Low Reverse Transfer Capacitance : $C_{re} = 1.7\text{pF}$



PNP Epitaxial Silicon Trnsistor

Absolute Maximum Ratings $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	-200	V
V_{CEO}	Collector-Emitter Voltage	-200	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current (DC)	-100	mA
I_{CP}	Collector Current (Pulse)	-200	mA
P_C	Collector Power Dissipation	1.0	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -10\mu\text{A}, I_E = 0$	-200			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -1\text{mA}, I_B = 0$	-200			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu\text{A}, I_C = 0$	-5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -150\text{V}, I_E = 0$			-0.1	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = -4\text{V}, I_C = 0$			-0.1	μA
h_{FE}	DC Current Gain	$V_{CE} = -10\text{V}, I_C = -10\text{mA}$	100		320	
$V_{CE}(\text{sat})$	Collector-Emitter Saturation Voltage	$I_C = -20\text{mA}, I_B = -2\text{mA}$			-0.6	V
$V_{BE}(\text{on})$	Base-Emitter On Voltage	$I_C = -20\text{mA}, I_B = -2\text{mA}$			-1.0	V
f_T	Current Gain Bandwidth Product	$V_{CE} = -30\text{V}, I_C = -10\text{mA}$		150		MHz
C_{ob}	Output Capacitance	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		2.6		pF
C_{re}	Reverse Transfer Capacitance	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		1.7		pF

Typical Characteristics

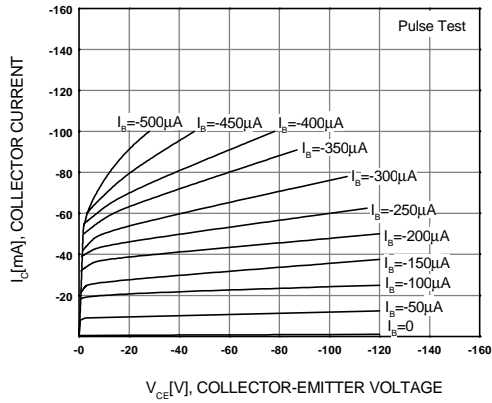


Figure 1. Static Characteristic

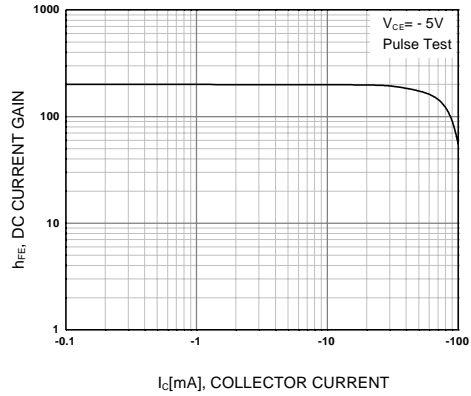


Figure 2. DC current Gain

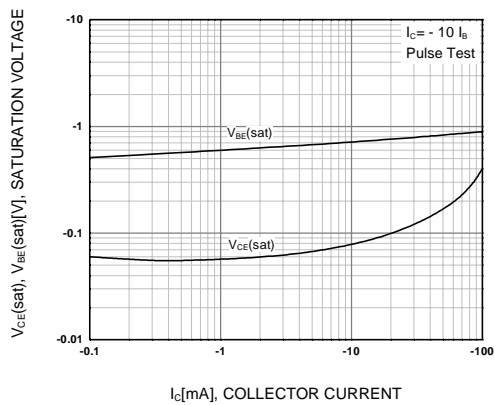


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

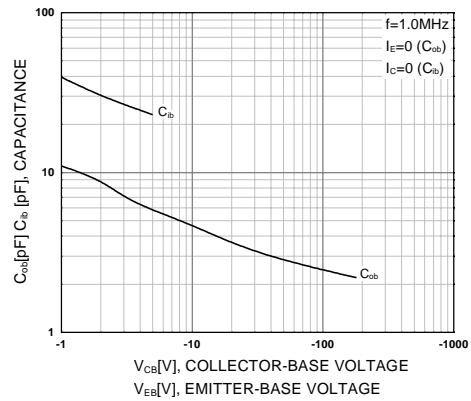


Figure 4. Collector Output Capacitance

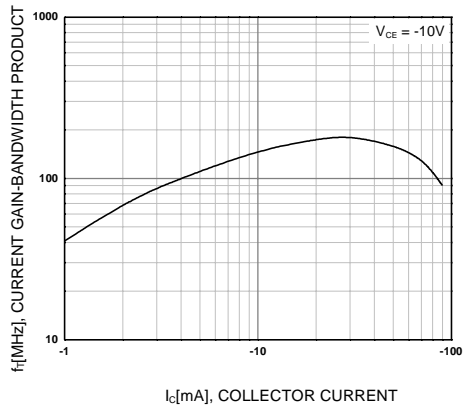


Figure 5. Current Gain Bandwidth Product

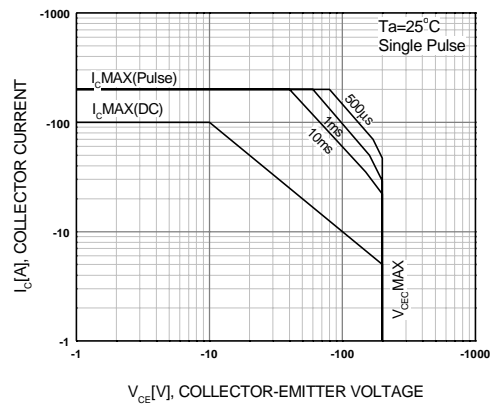


Figure 6. Safe Operating Area

Typical Characteristics (Continued)

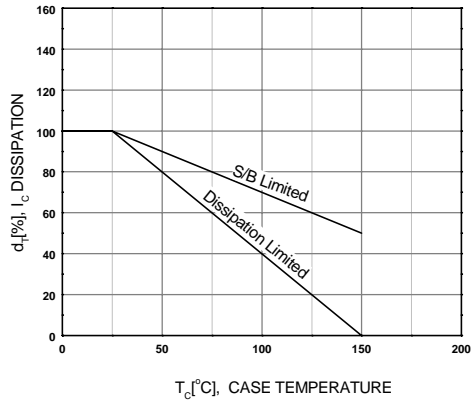
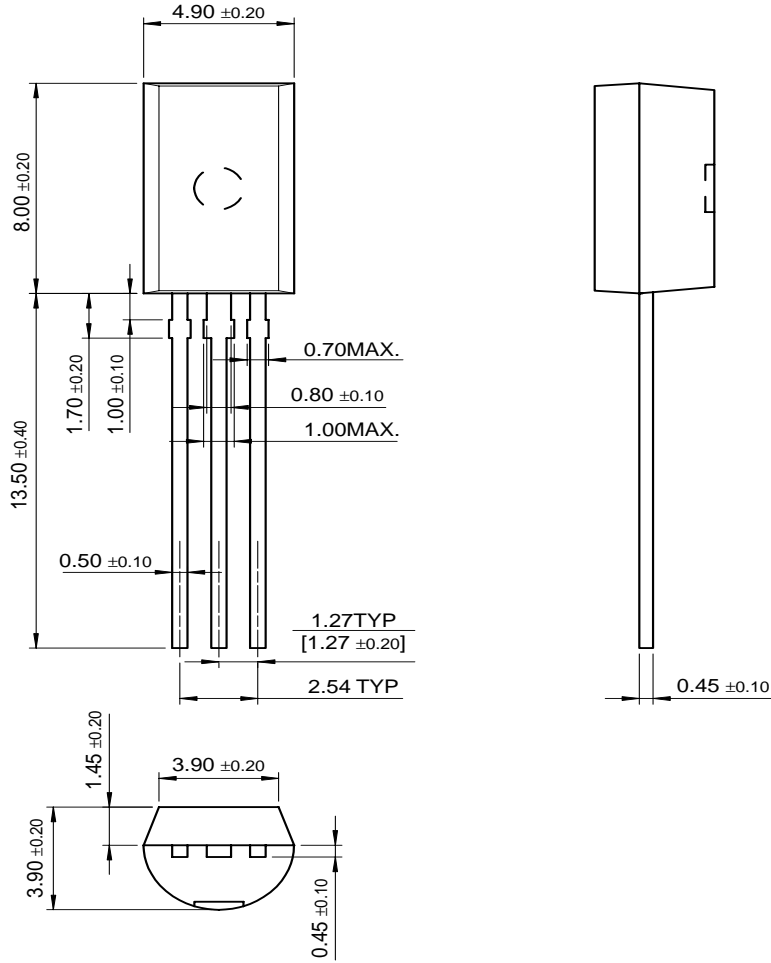


Figure 7. Derating Curve of Safe Operating Areas

Package Dimensions

TO-92L



Dimensions in Millimeters

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