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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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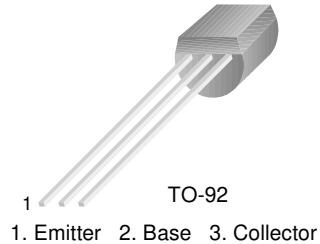
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



KSP62/63/64

Darlington Transistor

- Collector-Emitter Voltage: V_{CES} =KSP62: 20V
KSP63/64: 30V
- Collector Power Dissipation: P_C (max)=625mW



PNP Epitaxial Silicon Darlington Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage		
	: KSP62	-20	V
	: KSP63/64	-30	V
V_{CEO}	Collector-Emitter Voltage		
	: KSP62	-20	V
	: KSP63/64	-30	V
V_{EBO}	Emitter-Base Voltage	-10	V
I_C	Collector Current	-500	mA
P_C	Collector Power Dissipation	625	mW
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.	Max.	Units
BV_{CES}	Collector-Emitter Breakdown Voltage	$I_C = -100\mu\text{A}, I_B = 0$			
	: KSP62		-20		V
	: KSP63/64		-30		V
I_{CBO}	Collector Cut-off Current				
	: KSP62	$V_{CB} = -15\text{V}, I_E = 0$		-100	nA
	: KSP63/64	$V_{CB} = -30\text{V}, I_E = 0$		-100	nA
I_{EBO}	Emitter Cut-off Current	$V_{BE} = -10\text{V}, I_C = 0$		-100	nA
h_{FE}	* DC Current Gain				
	: KSP62	$V_{CE} = -5\text{V}, I_C = -10\text{mA}$	20K		
	: KSP63		5K		
	: KSP64		10K		
	: KSP63	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$	10K		
	: KSP64		20K		
$V_{CE}(\text{sat})$	* Collector-Emitter Saturation Voltage				
	: KSP62	$I_C = -10\text{mA}, I_B = -0.01\text{mA}$		-1.0	V
	: KSP63/64	$I_C = -100\text{mA}, I_B = -0.1\text{mA}$		-1.5	V
$V_{BE}(\text{on})$	* Base-Emitter On Voltage				
	: KSP62	$V_{CE} = -5\text{V}, I_C = -10\text{mA}$		-1.4	V
	: KSP63/64	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$		-2	V
f_T	Current Gain Bandwidth Product	$V_{CE} = -5\text{V}, I_C = -100\text{mA}$ $f = 100\text{MHz}$	125		MHz

* Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$

Typical Characteristics

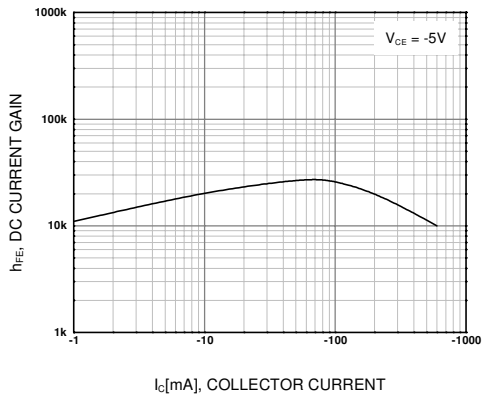


Figure 1. DC current Gain

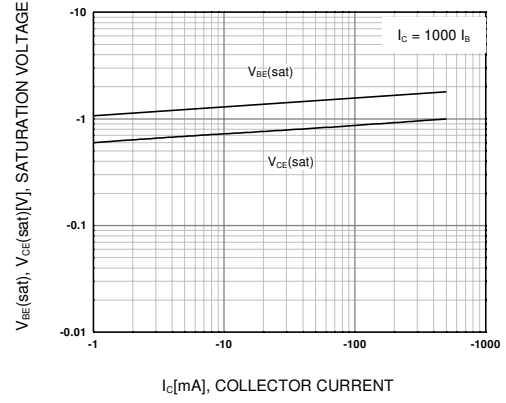


Figure 2. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

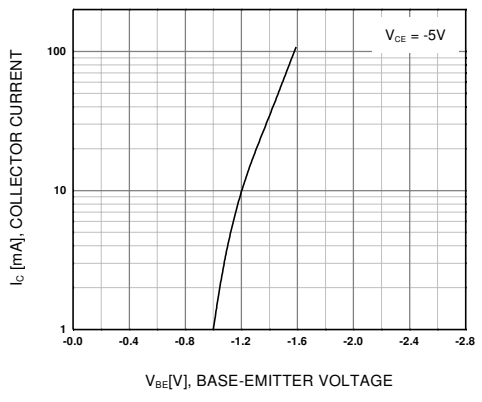


Figure 3. Base-Emitter On Voltage

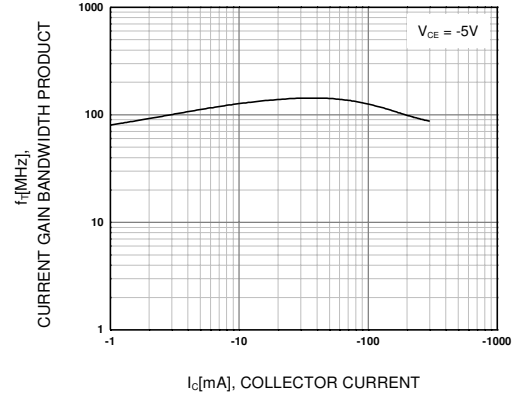
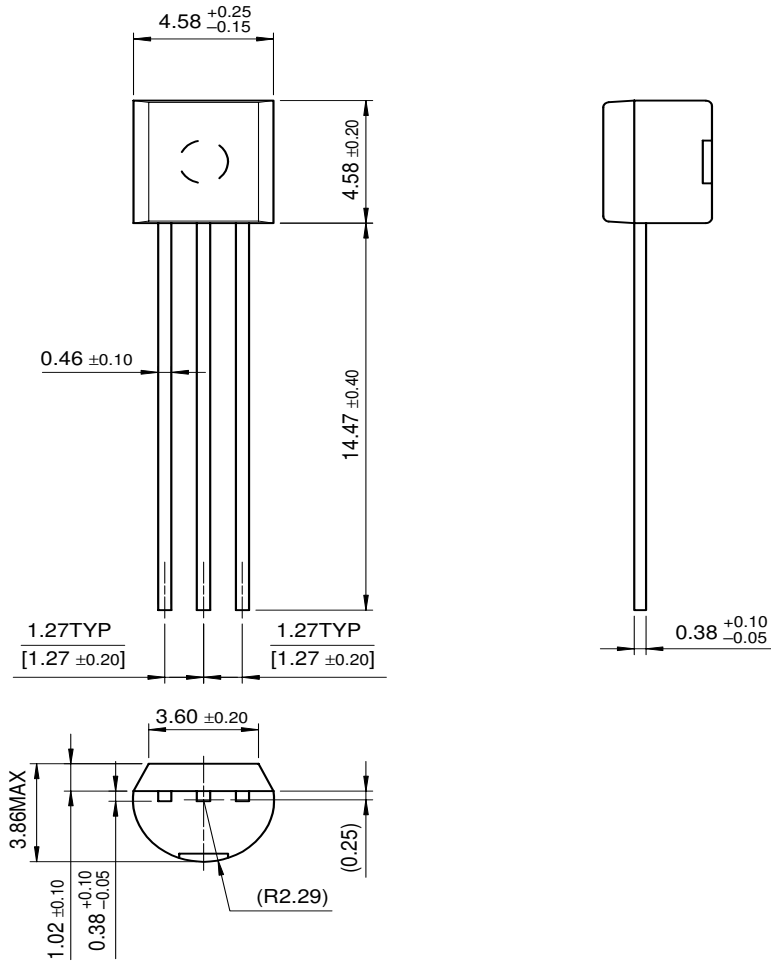


Figure 4. Current Gain Bandwidth Product

Package Dimensions

KSP62/63/64

TO-92



Dimensions in Millimeters

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