FAIRCHILD
SEMICONDUCTOR®

KSA1370

Crt Display, Video Output

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

TO-92L

1. Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Trnsistor

Absolute Maximum Ratings T_a=25°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	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

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

Typical Characteristics

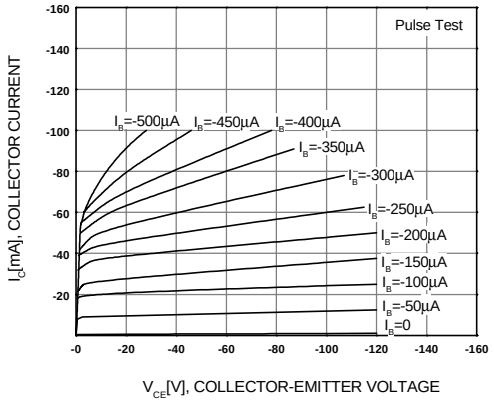


Figure 1. Static Characteristic

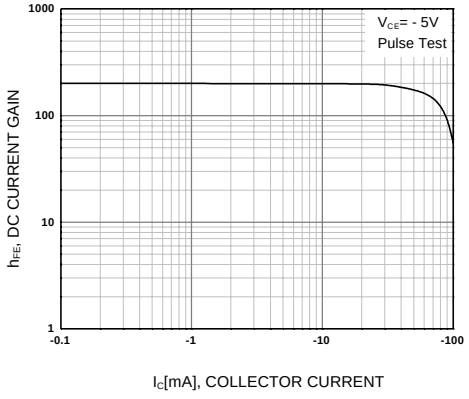


Figure 2. DC current Gain

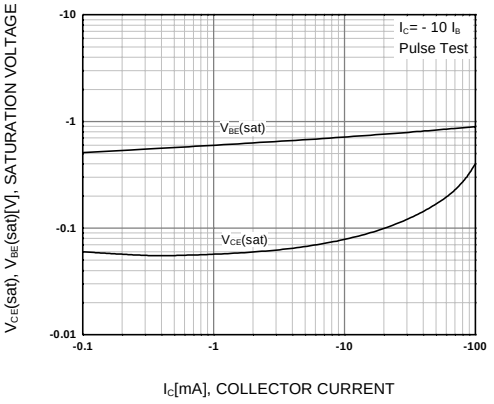


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

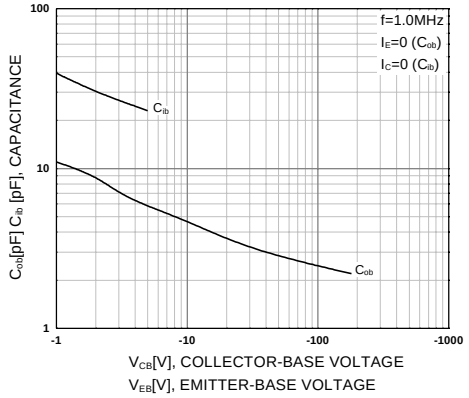


Figure 4. Collector Output Capacitance

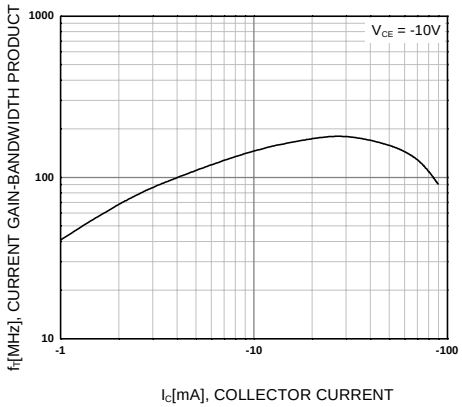


Figure 5. Current Gain Bandwidth Product

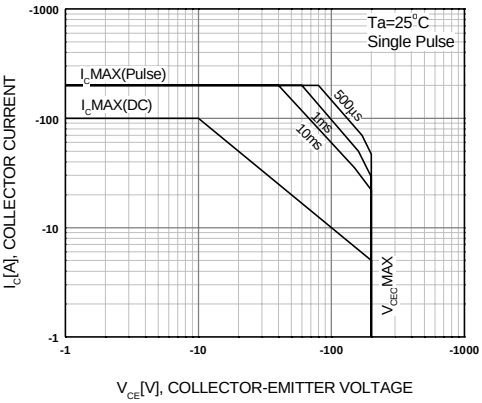


Figure 6. Safe Operating Area

Typical Characteristics (Continued)

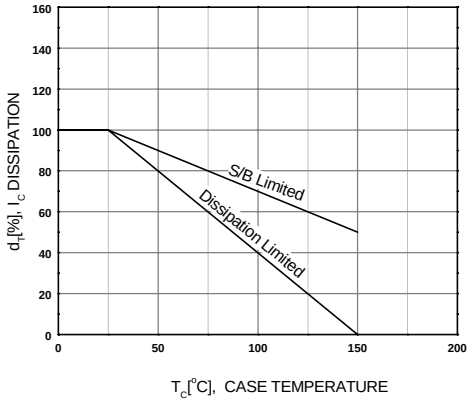
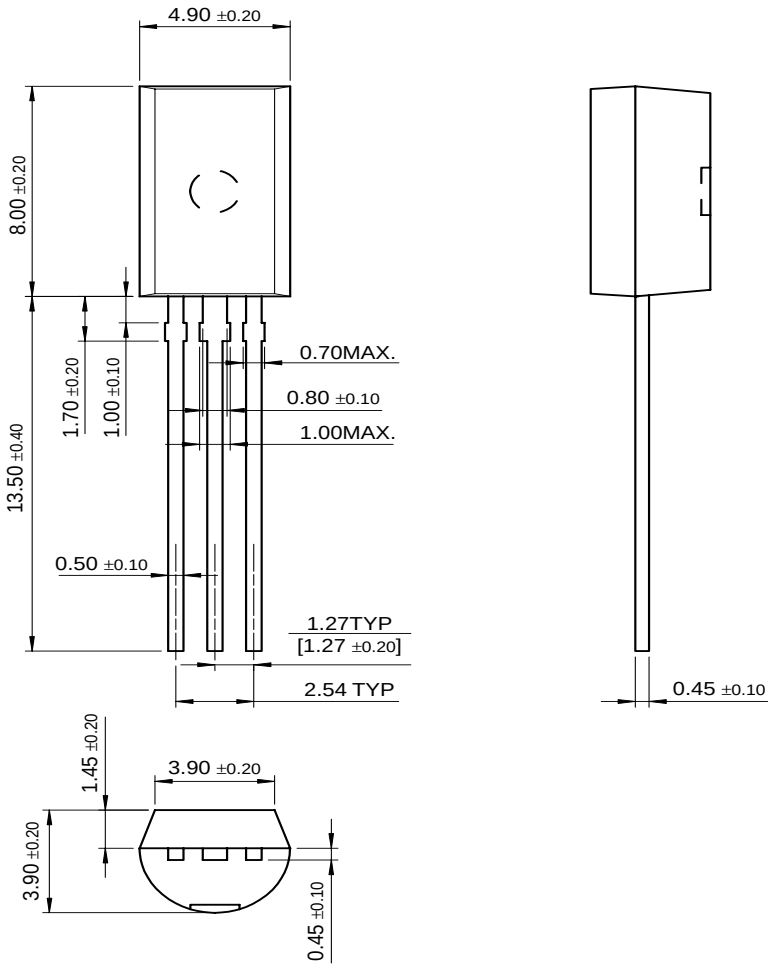


Figure 7. Derating Curve of Safe Operating Areas

Package Dimensions

TO-92L



Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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EnSigna™	I^2C™	OCX™	RapidConfigure™	UHC™
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The Power Franchise™		OPTOLOGIC®	SILENT SWITCHER®	VCX™
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

KSA1370

PNP Epitaxial Silicon Transistor

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Features

Crt Display, Video Output

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

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Product status/pricing/packaging BUY

Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method	Package Marking Convention**
KSA1370EBU	Full Production	Full Production	$0.06	TO-92L	3	BULK	Line 1: A1370 Line 2: E-&3
KSA1370ETA	Full Production	Full Production	$0.06	TO-92L	3	AMMO	Line 1: A1370 Line 2: E-&3
KSA1370FBU	Full Production	Full Production	$0.06	TO-92L	3	BULK	Line 1: A1370 Line 2: F-&3
KSA1370FTA	Full Production		$0.06	TO-92L	3	AMMO	Line 1: A1370 Line 2: F-&3

		Full Production					

* Fairchild 1,000 piece Budgetary Pricing
** A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a Fairchild distributor to obtain samples

Indicates product with Pb-free second-level interconnect. For more information click here.

Package marking information for product KSA1370 is available. Click here for more information .

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Qualification Support

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Product
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