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

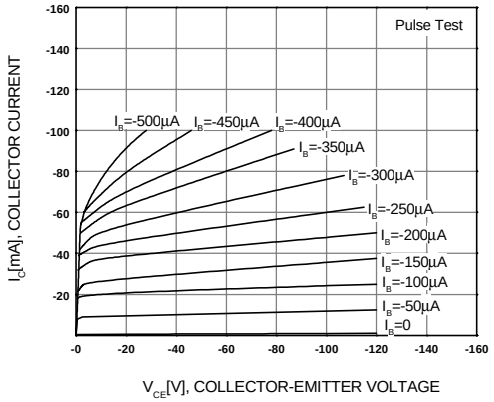


Figure 1. Static Characteristic

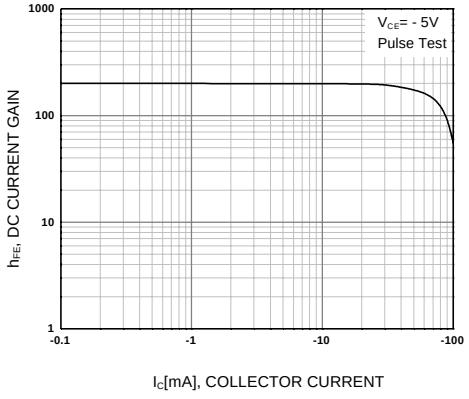


Figure 2. DC current Gain

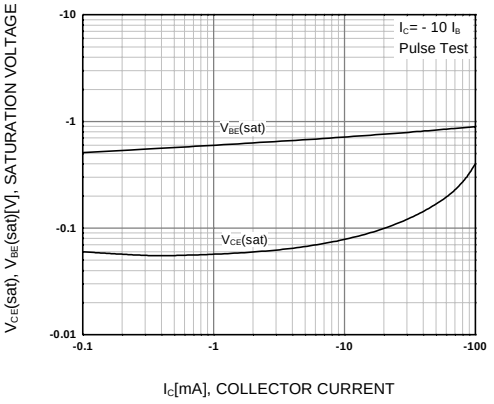


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

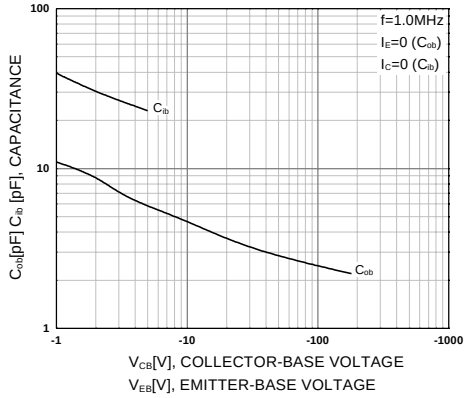


Figure 4. Collector Output Capacitance

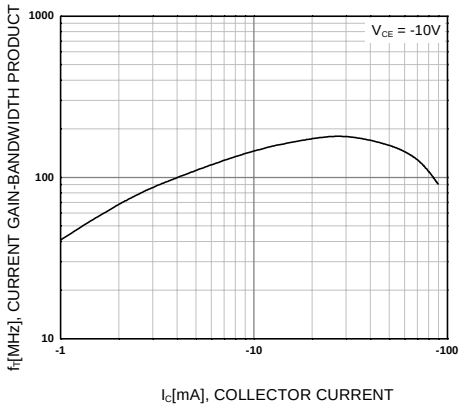


Figure 5. Current Gain Bandwidth Product

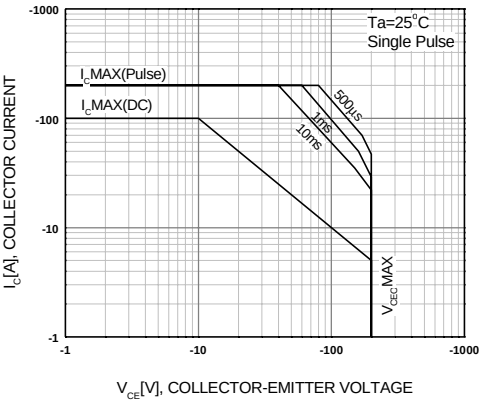


Figure 6. Safe Operating Area

Typical Characteristics (Continued)

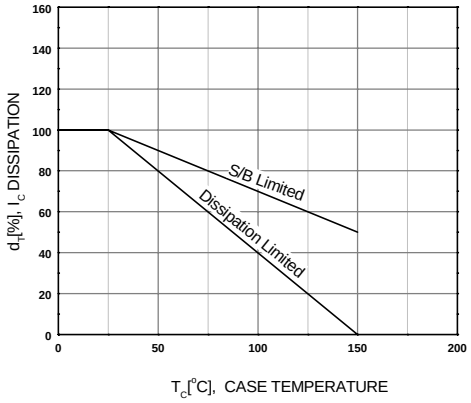
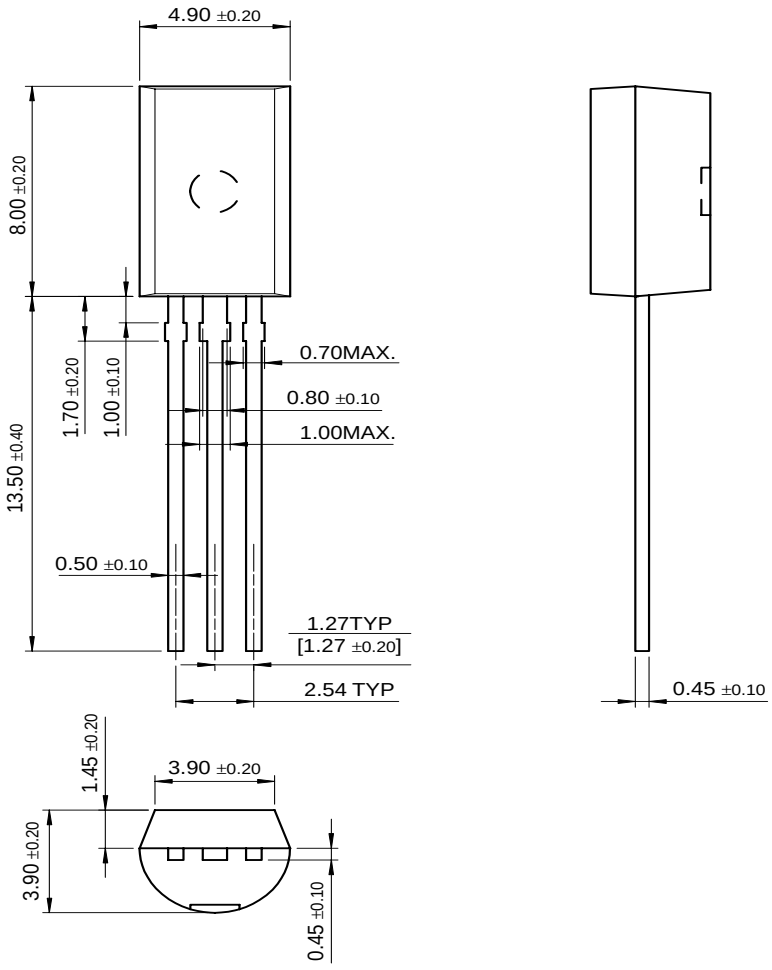


Figure 7. Derating Curve of Safe Operating Areas

Package Dimensions

TO-92L



Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench®	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS™	SyncFET™
EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
E^2CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C™	OCX™	RapidConfigure™	UHC™
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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