KSA1150OTA Datasheet

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DiGi Electronics Part Number	KSA1150OTA-DG
Manufacturer	onsemi
Manufacturer Product Number	KSA1150OTA
Description	TRANS PNP 20V 0.5A TO92S
Detailed Description	Bipolar (BJT) Transistor PNP 20 V 500 mA 300 mW T hrough Hole TO-92S

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RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSA1150OTA	onsemi
Series:	Product Status:
-	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	500 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ Ib, Ic:
20 V	400mV @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100nA (ICBO)	70 @ 100mA, 1V
Power - Max:	Frequency - Transition:
300 mW	-
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 Short Body	TO-92S
Base Product Number:	
KSA11	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.21.0095

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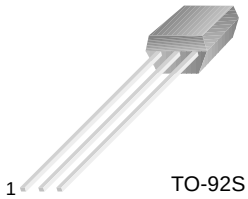
KSA1150

Low Frequency Power Amplifier

- Collector Dissipation : P_C = 300mW
- Complement to KSC2710



TO-92S

1.Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current (DC)	-500	mA
I_{CP}	* Collector Current (Pulse)	-700	mA
P_C	Collector Power Dissipation	300	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

* PW≤350ms, Duty cycle≤50%

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= -100μA, I_E=0	-40			V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C= -10mA, I_B=0	-20			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E= -100μA, I_C=0	-5			V
I_{CBO}	Collector Cut-off Current	V_{CB}= -25V, I_E=0			-100	nA
I_{EBO}	Emitter Cut-off Current	V_{EB}= -3V, I_C=0			-100	nA
h_{FE}	* DC Current Gain	V_{CE}= -1V, I_C= -100mA	40		400	
V_{CE}(sat)	* Collector-Emitter Saturation Voltage	I_C= -500mA, I_B= -50mA		-0.3	-0.4	V
V_{BE} (sat)	* Base-Emitter Saturation Voltage	I_C= -500mA, I_B= -50mA		-1.0	-1.3	V

* Pulse Test: PW≤350μs, Duty cycle≤2%

h_{FE} Classification

Classification	R	O	Y	G
h_{FE}	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400

Typical Characteristics

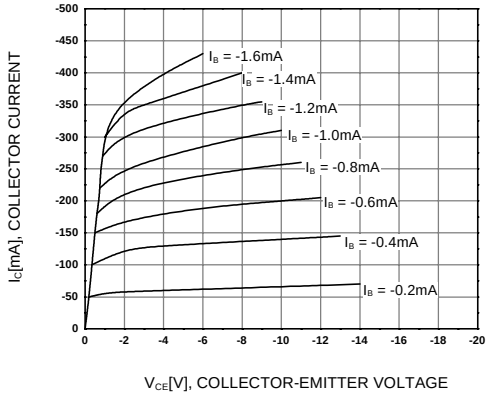


Figure 1. Static Characteristic

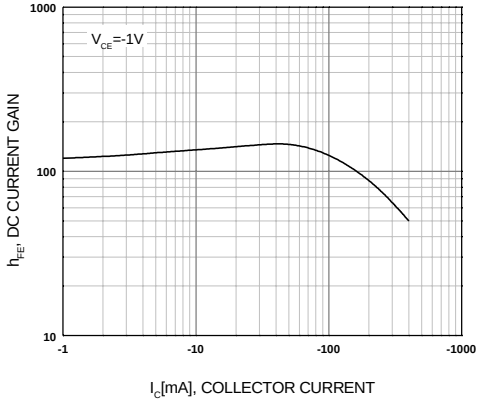


Figure 2. DC current Gain

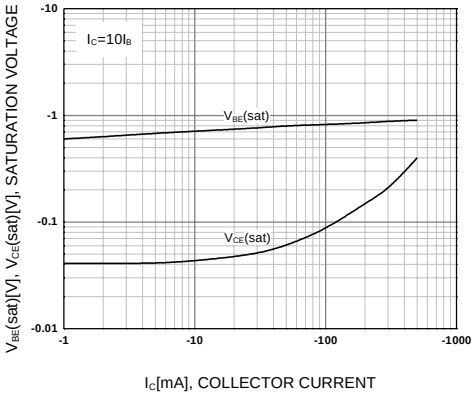


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

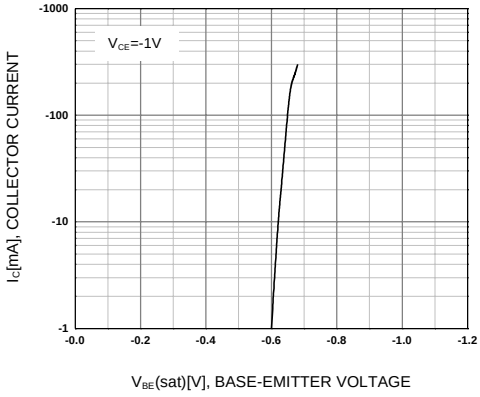


Figure 4. Base-Emitter On Voltage

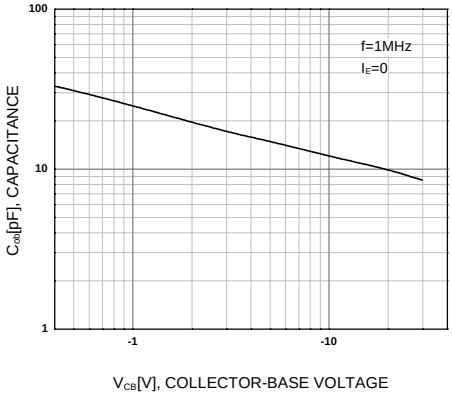
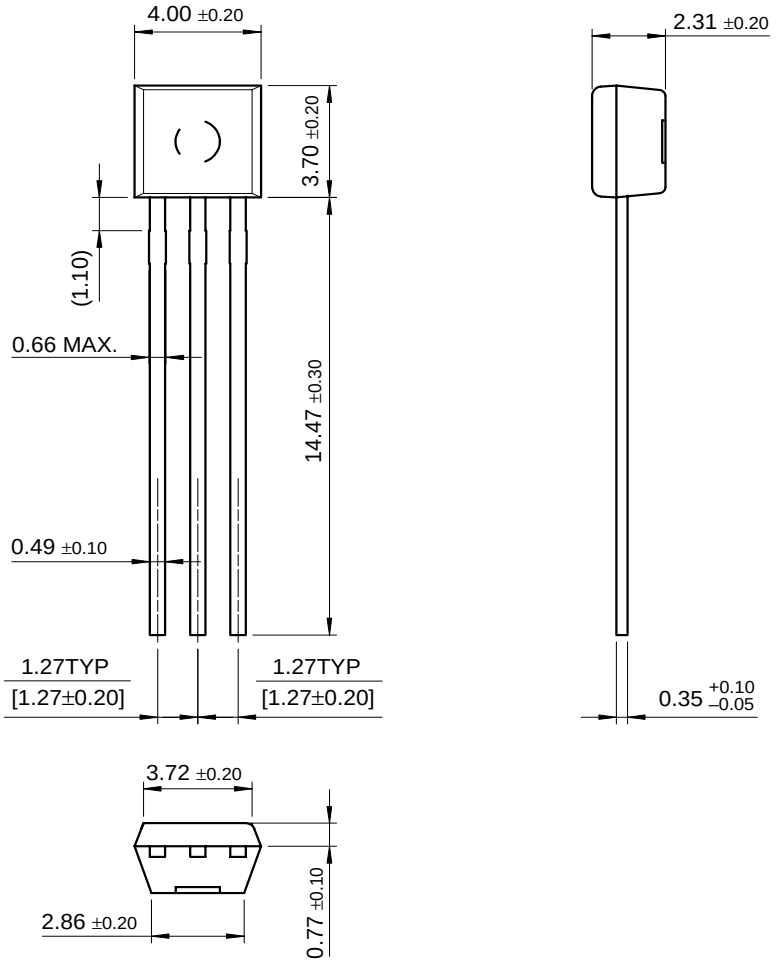


Figure 5. Collector Output Capacitance

Package Dimensions

TO-92S



Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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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.
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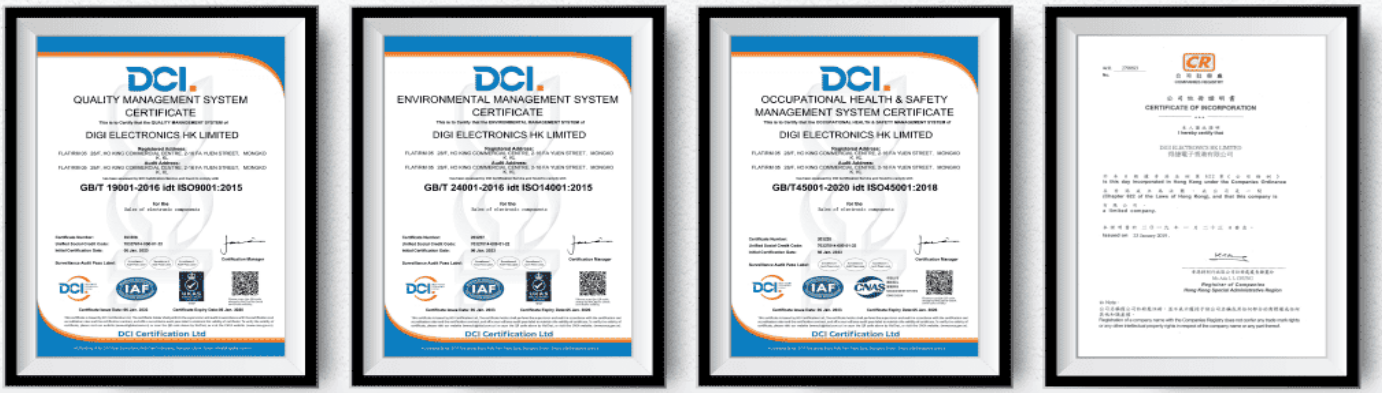

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