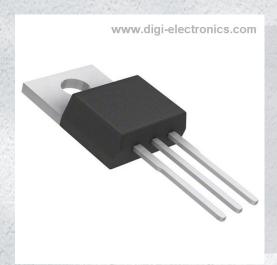


KSA940TSTU Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number KSA940TSTU-DG

Manufacturer onsemi

Manufacturer Product Number KSA940TSTU

Description TRANS PNP 150V 1.5A TO220-3

Detailed Description Bipolar (BJT) Transistor PNP 150 V 1.5 A 4MHz 1.5 W

Through Hole TO-220-3



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSA940TSTU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	1.5 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
150 V	1.5V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
10μA (ICBO)	40 @ 500mA, 10V
Power - Max:	Frequency - Transition:
1.5 W	4MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-220-3	TO-220-3
Base Product Number:	
KSA940	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
EAR99	8541.29.0095



Vertical Deflection Output Power Amplifier

KSA940

PNP Epitaxial Silicon TransistorComplement to KSC2073

• These are Pb-Free Devices

ABSOLUTE MAXIMUM RATINGS

 $(T_C = 25^{\circ}C \text{ unless otherwise noted.})$

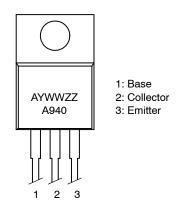
Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-150	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-1.5	Α
Ι _Β	Base Current	-0.5	Α
P _C	Collector Dissipation (T _a =25°C)	1.5	W
P _C	Collector Dissipation (T _C =25°C)	25	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55∼150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.



TO-220-3LD CASE 340AT

MARKING DIAGRAM



A = Assembly Plant Code

YWW = 3-Digit Date Code (Year and Week)
ZZ = 2-Digits Lot Run Traceability Code

A940 = Specific Device Code

ELECTRICAL CHARACTERISTICS

(T_C = 25°C unless otherwise noted.)

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
I _{CBO}	Collector Cut-off Current	V _{CB} = - 120 V, I _E = 0	-	-	-10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5 \text{ V}, I_{C} = 0$	ı	Ì	-10	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_{C} = -500 \text{ mA}$	40	75	140	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$	-	-	-1.5	V
V _{BE} (on)	Base-Emitter ON Voltage	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	-0.65	-0.75	-0.85	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$	-	4	-	MHz
C _{ob}	Output Capacitance	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ mHz}$	-	55	-	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

Device	Package	Shipping
KSA940TU	TO-220-3LD (Pb-Free)	1000 Units / Tube

KSA940

TYPICAL PERFORMANCE CHARACTERISTICS

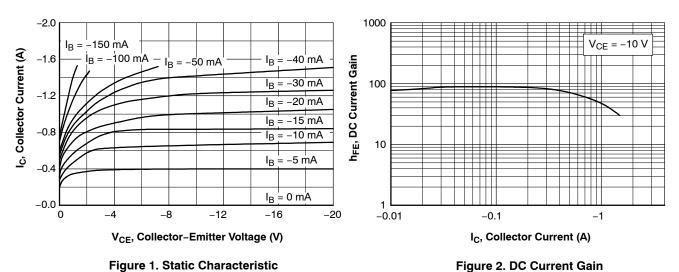


Figure 1. Static Characteristic

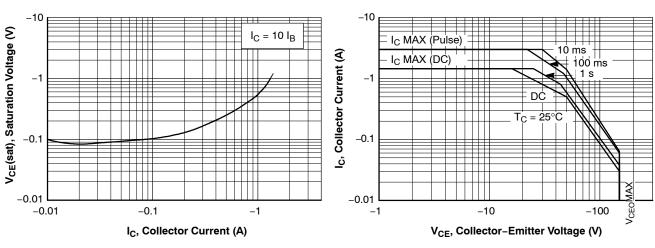


Figure 3. Collector-Emitter Saturation Voltage

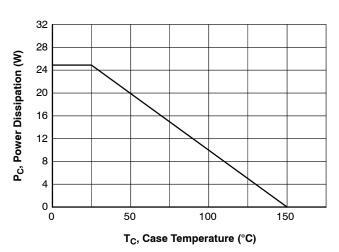


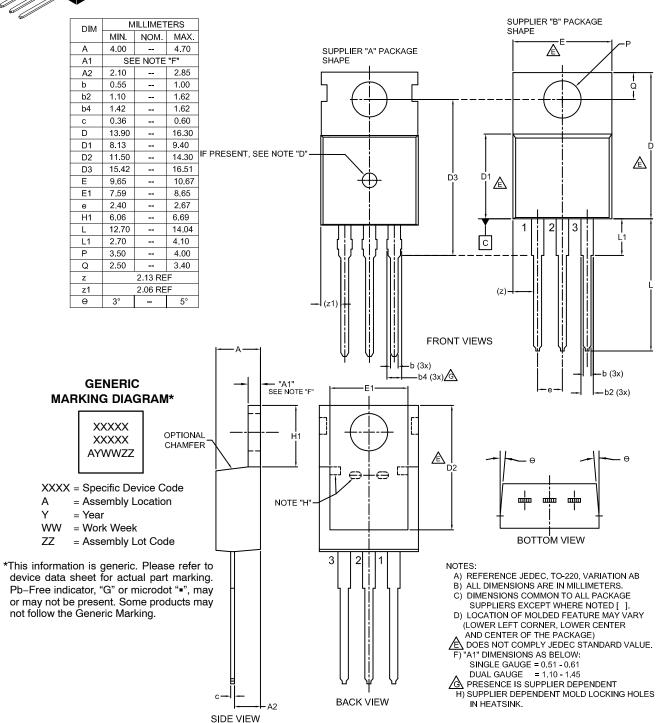
Figure 5. Power Derating



MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



DATE 08 AUG 2022



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DESCRIPTION:	TO-220-3LD		PAGE 1 OF 1	

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