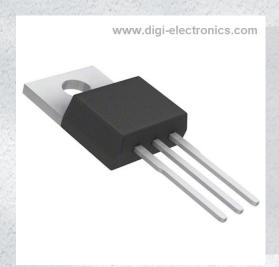


KSB546YTU Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number KSB546YTU-DG

Manufacturer onsemi

Manufacturer Product Number KSB546YTU

Description TRANS PNP 150V 2A TO220-3

Detailed Description Bipolar (BJT) Transistor PNP 150 V 2 A 5MHz 25 W Th

rough 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:
KSB546YTU	onsemi
Series:	Product Status:
	Last Time Buy
Transistor Type:	Current - Collector (Ic) (Max):
PNP	2 A
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, Ic:
150 V	1V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
50μA (ICBO)	120 @ 400mA, 10V
Power - Max:	Frequency - Transition:
25 W	5MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-220-3	TO-220-3
Base Product Number:	
KSB546	

Environmental & Export classification

8541.29.0095

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	Not Applicable
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	







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Please note. As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild guestions@onsemi.com.

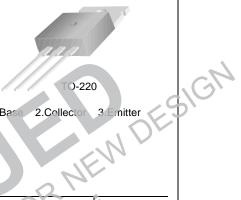
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KSB546

TV Vertical Deflection Output

- Collector-Base Voltage : V_{CBO} = -200V
- Collector Current : I_C = -2A
 Collector Dissipation : P_C= 25W (T_C=25°C)
- Complement to KSD401



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	- 200	A
V _{CEO}	Collector-Emitter Voltage	- 150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current(DC)	2	А
P _C	Collector Dissipation (T _C =25°C)	25	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	55 ~ 150	°C

Electrical Characteristics T_C=25°C unless of envise noted

Symbol	Paramoter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Preakdown Voltage	$I_C = 500 \mu A, I_E = 0$	- 200			V
BV _{CEO}	Collector-Emitter Breakdowr Voltage	$I_{C} = -10 \text{mA}, I_{B} = 0$	- 150			V
BV _{EBQ}	⊨mitter-⊳ase Breakdown Voltage	$I_E = -500 \text{uA}, I_C = 0$	- 5			V
I _{CBC}	Collector Cut-off Current	$V_{CB} = -150V, I_{E} = 0$			- 50	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_{E} = -0.4A$	40		240	
V _{CE} (sat)	Collector Emilier Saturation Voltage	$I_C = -500 \text{mA}, I_B = -50 \text{mA}$			- 1	V
f _T	Current Gain Bandwidth Product	$V_{CE} = -10V, I_{C} = -0.4A$		5		MHz

h_{FE} Classification

Classification	R	0	Υ
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240

Typical Characteristics

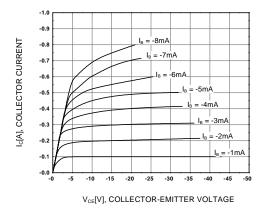


Figure 1. Static Characteristic

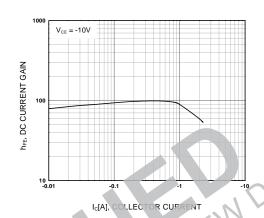


Figure 2. DC current Gain

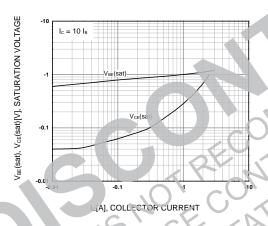


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

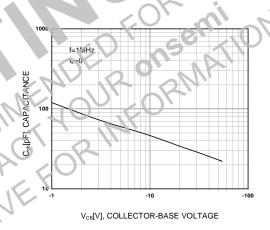


Figure 4. Collector Output Capacitance

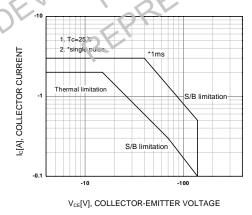


Figure 5. Safe Operating Area

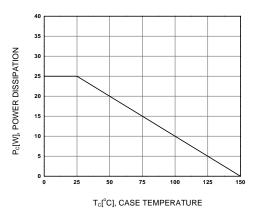
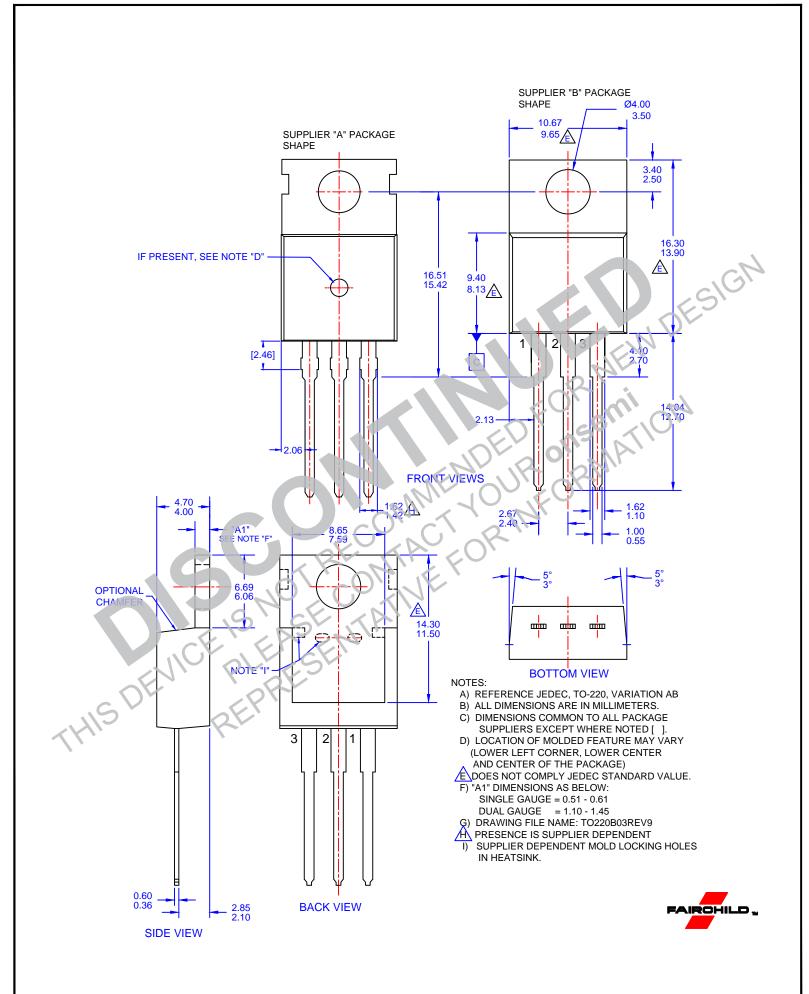


Figure 6. Power Derating

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