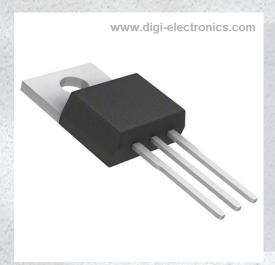


KSC1507YTU Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number KSC1507YTU-DG

Manufacturer onsemi

Manufacturer Product Number KSC1507YTU

Description TRANS NPN 300V 200UA TO220-3

Detailed Description Bipolar (BJT) Transistor NPN 300 V 200 µA 80MHz 15

W Through Hole TO-220-3



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RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



KSC1507

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
KSC1507YTU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	200 μΑ
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
300 V	2V @ 5mA, 50mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
100μA (ICBO)	120 @ 10mA, 10V
Power - Max:	Frequency - Transition:
15 W	80MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-220-3	TO-220-3
Base Product Number:	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
FAR99	8541 29 0075



KSC1507

Color TV Chroma Output

- High Collector-Emitter Voltage: V_{CEO}=300V
 Current Gain Bandwidth Product: f_T=40MHz (Min.)



1.Base 2.Collector 3.Emitter

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	300	V
V _{CEO}	Collector-Emitter Voltage	300	V
V _{EBO}			V
I _C	Collector Current	0.2	mA
P _C	Collector Dissipation (T _C =25°C)	15	W
T _J Junction Temperature		150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics $T_C=25$ °C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_C = 100 \mu A, I_E = 0$	300			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = 10 \text{mA}, I_B = 0$	300			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu A, I_C = 0$	7			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = 200V, I_{E} = 0$			100	μΑ
h _{FE}	DC Current Gain	$V_{CE} = 10V, I_{C} = 10mA$	40		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = 50 \text{mA}, I_B = 5 \text{mA}$			2.0	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 30V, I_{C} = 10mA$	40	80		MHz
C _{ob}	Output Capacitance	$V_{CB} = 50V, I_{E} = 0,$ f = 1MHz		4		pF

h_{FE} Classification

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

Typical Characteristics

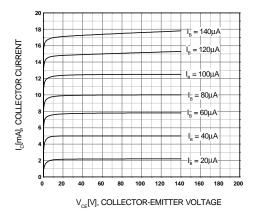


Figure 1. Static Characteristic

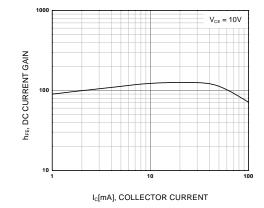


Figure 2. DC current Gain

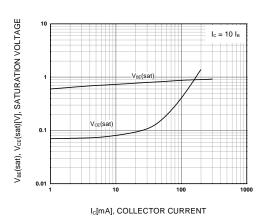


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

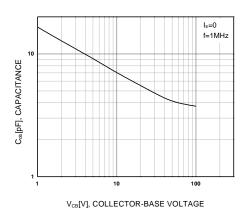


Figure 4. Collector Output Capacitance

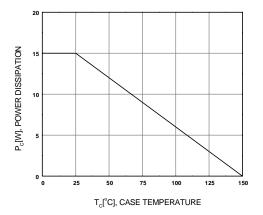
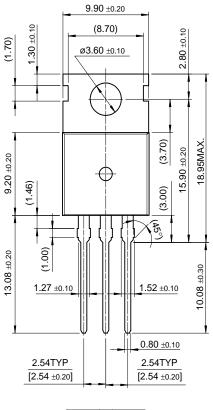
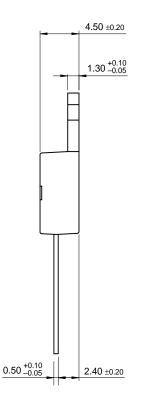


Figure 5. Power Derating

Package Dimensions







10.00 ±0.20

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CoolFET™	FASTr™	MicroFET™	PowerTrench [®]	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
DOME™	GlobalOptoisolator™	MICROWIRE™	QS^{TM}	SyncFET™
EcoSPARK™	GTO™	MSX TM	QT Optoelectronics™	TinyLogic™
E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
Across the board.	. Around the world.™	OCXPro™	RapidConnect™	UltraFET [®]
The Power Franc	hise™	OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Ad	ctive Droop™	OPTOPLANAR™	SMART START™	

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PRODUCT STATUS DEFINITIONS

Definition of Terms

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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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