

2N6519BU Datasheet



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DiGi Electronics Part Number 2N6519BU-DG

Manufacturer onsemi

Manufacturer Product Number 2N6519BU

Description TRANS PNP 300V 0.5A TO92-3

Detailed Description Bipolar (BJT) Transistor PNP 300 V 500 mA 200MHz

625 mW Through Hole TO-92-3



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
2N6519BU	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
PNP	500 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, lc:
300 V	1V @ 5mA, 50mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
50nA (ICBO)	40 @ 50mA, 10V
Power - Max:	Frequency - Transition:
625 mW	200MHz
Operating Temperature:	Mounting Type:
-55°C ~ 150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA)	TO-92-3
Base Product Number:	
2N6519	

Environmental & Export classification

Moisture Sensitivity Level (MSL):	REACH Status:
1 (Unlimited)	REACH Unaffected
ECCN:	HTSUS:
FAR99	8541 21 0075



2N6519

High Voltage Transistor

- Collector-Emitter Voltage: V_{CEO}= -300V
 Collector Dissipation: P_C (max)=625mW



PNP Epitaxial Silicon Transistor

1. Emitter 2. Base 3. Collector

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-300	V
V _{CEO}	Collector-Emitter Voltage	-300	V
V_{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-500	mA
I _B	Base Current	-250	mA
P _C	Collector Power Dissipation	625	W
	Derate above 25°C	5	mW/°C
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Refer to 2N6520 for graphs

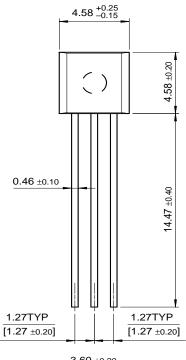
Electrical Characteristics T_a =25°C unless otherwise noted

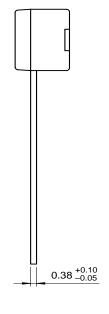
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-300		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _B =0	-300		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -200V, I _E =0		-50	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -4V, I _C =0		-50	nA
h _{FE}	* DC Current Gain	V _{CE} = -10V, I _C = -1mA V _{CE} = -10V, I _C = -10mA V _{CE} = -10V, I _C = -30mA V _{CE} = -10V, I _C = -50mA V _{CE} = -10V, I _C = -100mA	30 45 45 40 20	270 200	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA I_{C} = -50mA, I_{B} = -5mA		-0.30 -0.35 -0.50 -1	V V V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I_{C} = -10mA, I_{B} = -1mA I_{C} = -20mA, I_{B} = -2mA I_{C} = -30mA, I_{B} = -3mA		-0.75 -0.85 -0.90	V V V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -10V, I _C = -100mA		-2	V
f _T	* Current Gain Bandwidth Product	V _{CE} = -20V, I _C = -10mA, f=20MHz	40	200	MHz
f _T C _{ob}	Output Capacitance	V _{CB} = -20V, I _E =0, f=1MHz		6	pF
C _{EB}	Emitter-Base Capacitance	V _{EB} = -0.5V, I _C =0, f=1MHz		100	pF
t _{ON}	Turn On Time	V_{BE} (off)= -2V, V_{CC} = -100V I_{C} = -50mA, I_{B1} = -10mA		200	ns
t _{OFF}	Turn Off Time	V_{CC} = -100V, I_{C} = -50mA 3.5 I_{B1} = I_{B2} =10mA		ns	

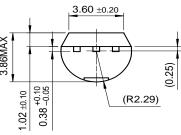
^{*} Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%

Package Dimensions









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