

PN2222_J61Z Datasheet



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DiGi Electronics Part Number PN2222_J61Z-DG

Manufacturer onsemi

Manufacturer Product Number PN2222_J61Z

Description TRANS NPN 30V 0.6A T092-3

Detailed Description Bipolar (BJT) Transistor NPN 30 V 600 mA 300MHz 6

25 mW Through Hole TO-92-3



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PN2222

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
PN2222_J61Z	onsemi
Series:	Product Status:
	Obsolete
Transistor Type:	Current - Collector (Ic) (Max):
NPN	600 mA
Voltage - Collector Emitter Breakdown (Max):	Vce Saturation (Max) @ lb, Ic:
30 V	1V @ 50mA, 500mA
Current - Collector Cutoff (Max):	DC Current Gain (hFE) (Min) @ Ic, Vce:
10nA (ICBO)	100 @ 150mA, 10V
Power - Max:	Frequency - Transition:
625 mW	300MHz
Operating Temperature:	Mounting Type:
150°C (TJ)	Through Hole
Package / Case:	Supplier Device Package:
TO-226-3, TO-92-3 (TO-226AA) Formed Leads	TO-92-3
Base Product Number:	

Environmental & Export classification

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



PN2222

General Purpose Transistor



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	600	mA
P _C	Collector Power Dissipation	625	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

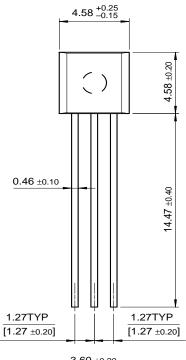
Electrical Characteristics T_a =25°C unless otherwise noted

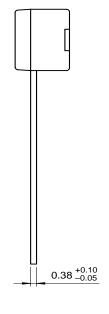
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μA, I _E =0	60		V
BV _{CEO}	Collector Emitter Breakdown Voltage	I _C =10mA, I _B =0	30		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	5		V
I _{CBO}	Collector Cut-off Current	V_{CB} =50V, I_E =0		0.01	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =3V, I _C =0		10	nA
h _{FE}	DC Current Gain	V _{CE} =10V, I _C =0.1mA V _{CE} =10V, *I _C =150mA	35 100	300	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		1	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		2	V
f _T	Current Gain Bandwidth Product	V _{CE} =20V, I _C =20mA, f=100MHz	300		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		8	pF

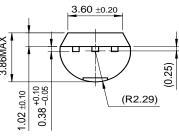
^{*} Pulse Test: Pulse Width≤300µs, Duty Cycle≤2%

Package Dimensions









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