



PRODUCT NAME : 2N5321 NPN Small Signal Transistor (Pack of 5)

PRICE : Rs 20.00

SKU : RM2090



DESCRIPTION

WITH THE PRODUCT BEING REFERENCED ABOVE. Copyrights by Robomart.com

Features

- Collector-Emitter Volt (V_{ce0}): 50V
- Collector-Base Volt (V_{cb0}): 75V
- Collector Current (I_c): 1.2A
- h_{fe} : 40-250 @ 500mA
- Power Dissipation (P_{tot}): 1000mW
- Current-Gain-Bandwidth (f_{total}): 50MHz
- Type: NPN



2N5320
2N5321

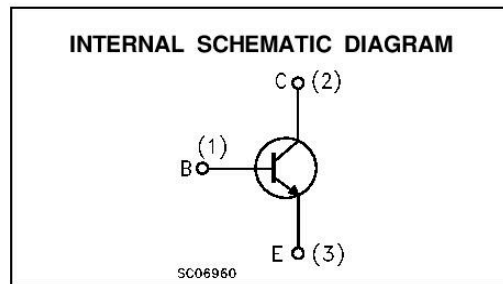
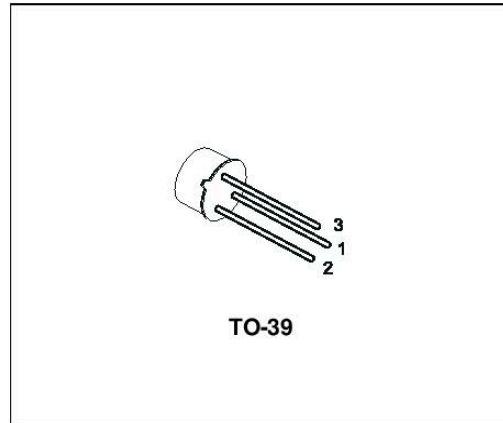
SMALL SIGNAL NPN TRANSISTORS

- SILICON EPITAXIAL PLANAR NPN TRANSISTORS
- MEDIUM POWER AMPLIFIER
- PNP COMPLEMENTS ARE 2N5322 AND 2N5323

DESCRIPTION

The 2N5320 and 2N5321 are silicon epitaxial planar NPN transistors in Jedec TO-39 metal case. They are especially intended for high-voltage medium power application in industrial and commercial equipments.

The complementary PNP types are respectively the 2N5322 and 2N5323



ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value		Unit
		2N5320	2N5321	
V _{CBO}	Collector-Base Voltage (I _E = 0)	100	75	V
V _{CEV}	Collector-Emitter Voltage (V _{BE} = 1.5V)	100	75	V
V _{CEO}	Collector-Emitter Voltage (I _B = 0)	75	50	V
V _{EBO}	Emitter-Base Voltage (I _C = 0)	6	5	V
I _C	Collector Current	1.2		A
I _{CM}	Collector Peak Current	2		A
I _B	Base Current	1		A
P _{tot}	Total Dissipation at T _{amb} = 25 °C	1		W
P _{tot}	Total Dissipation at T _c = 25 °C	10		W
T _{stg} , T _j	Storage and Junction Temperature	-65 to 200		°C

2N5320/2N5321

THERMAL DATA

R _{thj-case}	Thermal Resistance Junction-Case	Max	17.5	°C/W
R _{thj-amb}	Thermal Resistance Junction-Ambient	Max	175	°C/W

ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I _{CBO}	Collector Cut-off Current (I _E = 0)	V _{CB} = 80 V for 2N5320 V _{CB} = 60 V for 2N5321			0.5 5	μA μA
I _{EBO}	Collector Cut-off Current (I _C = 0)	V _{EB} = 5 V for 2N5320 V _{EB} = 4 V for 2N5321		0.1 0.5		μA μA
V _{(BR)CEV}	Collector-Emitter Breakdown Voltage (V _{BE} = 1.5V)	I _C = 100 μA for 2N5320 for 2N5321	100 75			V V
V _{(BR)CEO*}	Collector-Emitter Breakdown Voltage (I _B = 0)	I _C = 10 mA for 2N5320 for 2N5321	75 50			V V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _C = 0)	I _E = 100 μA for 2N5320 for 2N5321	6 5			V V
V _{CE(sat)*}	Collector-Emitter Saturation Voltage	I _C = 500 mA I _B = 50 mA for 2N5320 for 2N5321			0.5 0.8	V V
V _{BE*}	Base-Emitter Voltage	I _C = 500 mA V _{CE} = 4 V for 2N5320 for 2N5321			1.1 1.4	V V
h _{FE*}	DC Current Gain	for 2N5320 I _C = 500 mA V _{CE} = 4 V I _C = 1 A V _{CE} = 2 V for 2N5321 I _C = 500 mA V _{CE} = 4 V	30 10 40		130 250	
f _T	Transition Frequency	I _C = 50 mA V _{CE} = 4 V f = 10 MHz	50			MHz
t _{on}	Turn-on Time	I _C = 500 mA V _{CC} = 30 V I _{B1} = 50 mA			80	ns
t _{off}	Turn-off Time	I _C = 500 mA V _{CC} = 30 V I _{B1} = -I _{B2} = 50 mA			800	ns

* Pulsed: Pulse duration = 300 μs, duty cycle = 1 %

