



Micro Commercial Components

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2N5551

Features

- This device is designed for general purpose high voltage amplifiers and gas discharge display drivers.
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL rating 1
- Marking: Type number
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	160	V
V_{CBO}	Collector-Base Voltage	180	V
V_{EBO}	Emitter-Base Voltage	6.0	V
I_C	Collector Current	600	mA
P_C	Collector Power Dissipation	625	mW
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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OFF CHARACTERISTICS

$V_{(BR)CEO}$	Collector-Emitter Voltage* ($I_C=1.0\text{mA}$, $I_B=0$)	160	---	Vdc
$V_{(BR)CBO}$	Collector-Base Voltage ($I_C=100\mu\text{A}$, $I_E=0$)	180	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Voltage ($I_E=10\mu\text{A}$, $I_C=0$)	6.0	---	Vdc
I_{CBO}	Collector Cutoff Current ($V_{CB}=35\text{Vdc}$, $I_E=0$) ($V_{CB}=120\text{Vdc}$, $I_E=0$, $T_A=100^\circ\text{C}$)	---	50	nAdc uAdc
I_{EBO}	Emitter Cutoff Current ($V_{EB}=5.0\text{Vdc}$, $I_C=0$)	---	50	nAdc

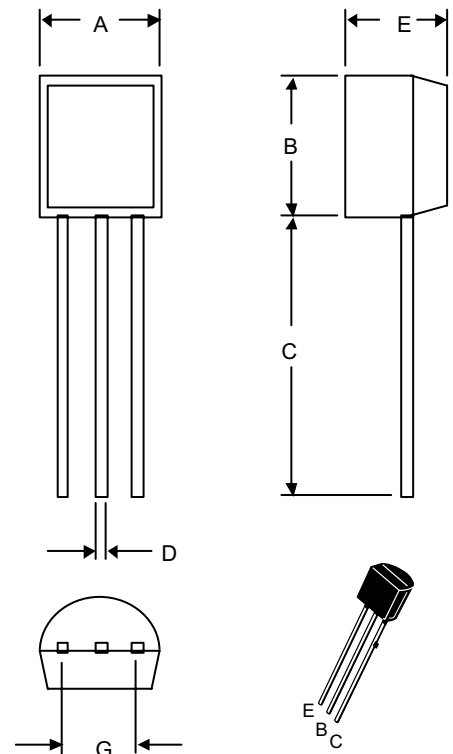
ON CHARACTERISTICS

h_{FE}	DC Current gain ($I_C=1.0\text{mA}$, $V_{CE}=5.0\text{Vdc}$) ($I_C=10\text{mA}$, $V_{CE}=5.0\text{Vdc}$) ($I_C=50\text{mA}$, $V_{CE}=5.0\text{Vdc}$)	80 80 30	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=50\text{mA}$, $I_B=5.0\text{mA}$)	---	0.5	Vdc
$V_{BE(sat)}$	Base- Emitter Voltage ($I_B=5.0\text{mA}$, $I_C=50\text{mA}$)	---	1.0	Vdc

* Pulse Test: Pulse Width<300us, Duty Cycle<2.0%

NPN General Purpose Amplifier Transistor

TO-92



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.170	.190	4.33	4.83	
B	.170	.190	4.30	4.83	
C	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.096	.104	2.44	2.64	

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ON CHARACTERISTICS

f_T	Transistor Frequency ($V_{CE}=10Vdc, I_C=10mA$)	100	300	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10Vdc, I_E=0, f=1.0MHz$)	---	6.0	pF
C_{ibo}	Input Capacitance ($V_{CE}=10Vdc, I_C=0, f=1.0MHz$)	---	20	pF



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Ordering Information

Device	Packing
(Part Number)-AP	Ammo Packing;2Kpcs/AmmoBox
(Part Number)-BP	Bulk;1Kpcs/Bag

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