



2N5551

NPN General Purpose Amplifier Transistor

Features

- This device is designed for general purpose high voltage amplifiers and gas discharge display drivers.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: Type number
- Lead Free Finish/Rohs Compliant ("P" Suffix designates Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

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	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units
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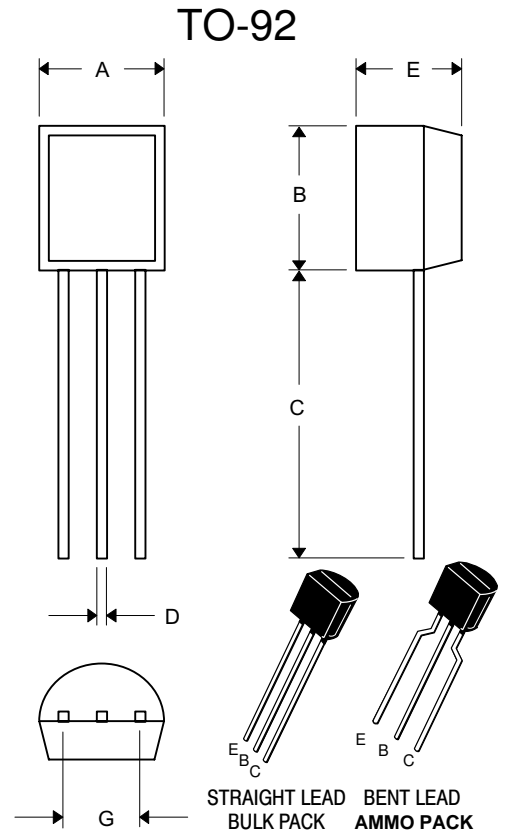
OFF CHARACTERISTICS

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

ON CHARACTERISTICS

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

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



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.175	.185	4.45	4.70	
B	.175	.185	4.45	4.70	
C	.500	---	12.70	---	
D	.016	.020	0.41	0.63	
E	.135	.145	3.43	3.68	
G	.095	.105	2.42	2.67	Straight Lead
	.173	.220	4.40	5.60	Bent Lead

* For ammo packing detailed specification, click here to visit our website of product packaging for details.

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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: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

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