



2SA950-O 2SA950-Y

PNP Silicon Transistors

Features

- Complementary Pair With 2SC2120
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- 1W Output Applications

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{CBO}	Collector-Base Voltage	-35	V
V_{EBO}	Emitter-Base Voltage	-5.0	V
I_C	Collector Current	-800	mA
P_C	Collector power dissipation	600	mW
T_J	Junction Temperature	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

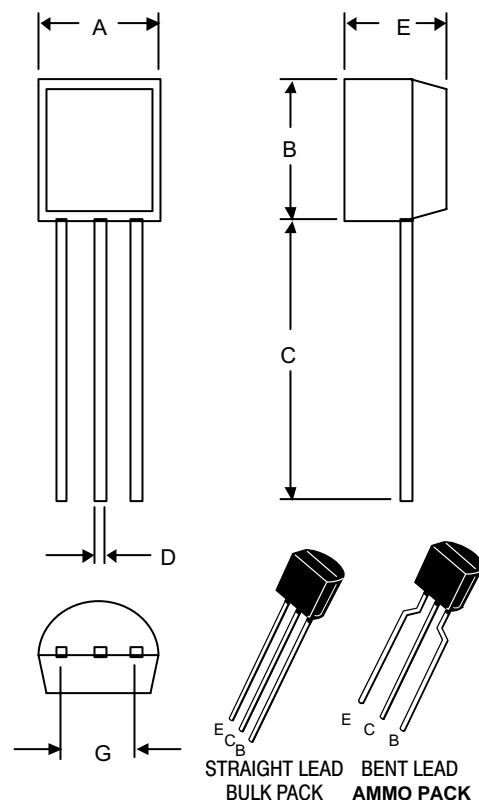
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C = -100\mu A$, $I_E = 0$)	-35	---	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C = -10mA$, $I_B = 0$)	-30	---	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E = -100\mu A$, $I_C = 0$)	-5.0	---	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB} = -35Vdc$, $I_E = 0$)	---	---	-0.1	μA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB} = -5.0Vdc$, $I_C = 0$)	---	---	-0.1	μA

ON CHARACTERISTICS

$h_{FE(1)}$	DC Current Gain* ($I_C = -100mA$, $V_{CE} = -1.0Vdc$)	100	---	320	---
$h_{FE(2)}$	DC Current Gain ($I_C = -700mA$, $V_{CE} = -1.0Vdc$)	35	---	---	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = -500mA$, $I_B = -20mA$)	---	---	0.7	Vdc
V_{BE}	Base-Emitter Voltage ($I_C = -10mA$, $V_{CE} = -1.0Vdc$)	-0.5	---	0.8	Vdc
f_T	Transition Frequency ($V_{CE} = -5Vdc$, $I_C = -10mA$)	---	120	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB} = -10Vdc$, $I_E = 0$, $f = 1.0MHz$)	---	19	---	pF

* h_{FE} rank / O: 100-200, Y: 160-320,

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	

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

Ordering Information :

Device	Packing
Part Number-AP	Ammo Packing: 20Kpcs/Carton
Part Number-BP	Bulk: 100Kpcs/Carton

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