



Micro Commercial Components



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2SC2120-O
2SC2120-Y

**NPN Silicon
Transistors**

Features

- Complementary Pair With 2SA950
- 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)

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

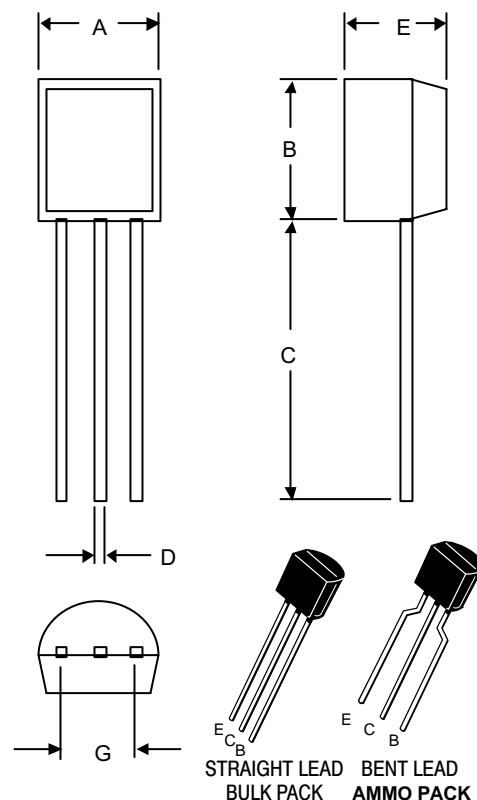
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ($I_C=100\mu A$, $I_E=0$)	35	---	---	Vdc
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage ($I_C=10mA$, $I_B=0$)	30	---	---	Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E=100\mu A$, $I_C=0$)	5.0	---	---	Vdc
I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=35Vdc$, $I_E=0$)	---	---	0.1	μA
I_{CEO}	Collector-Emitter Cutoff Current ($V_{CE}=25Vdc$, $I_B=0$)	---	---	0.1	μA
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=5.0Vdc$, $I_C=0$)	---	---	0.1	μA

ON CHARACTERISTICS

h_{FE}	DC Current Gain* ($I_C=100mA$, $V_{CE}=1.0Vdc$)	100	---	320	---
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C=500mA$, $I_B=20mA$)	---	---	0.50	Vdc
V_{BE}	Base-Emitter Voltage ($I_C=10mA$, $V_{CE}=1Vdc$)	---	---	0.80	Vdc
f_T	Transition Frequency ($V_{CE}=5Vdc$, $I_C=10mA$)	100	---	---	MHz
C_{ob}	Collector Output Capacitance ($V_{CB}=10Vdc$, $I_E=0$, $f=1.0MHz$)	---	---	13	pF

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

TO-92



STRAIGHT LEAD
BULK PACK

BENT LEAD
AMMO PACK

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.

www.mccsemi.com

Ordering Information :

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

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