



Micro Commercial Components



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2SC1923-R 2SC1923-O 2SC1923-Y

Power Silicon NPN Transistor

Features

- General Purpose Switching Application
- 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)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CE0}	Collector-Emitter Voltage	30	V
V_{CBO}	Collector-Base Breakdown Voltage	40	V
V_{EBO}	Emitter-Base Voltage	4.0	V
I_C	Collector Current	20	mA
R_{thJA}	Thermal Resistance Junction To Ambient	1250	$^{\circ}C/W$
P_C	Collector Power Dissipation	100	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	Typ	Max	Units
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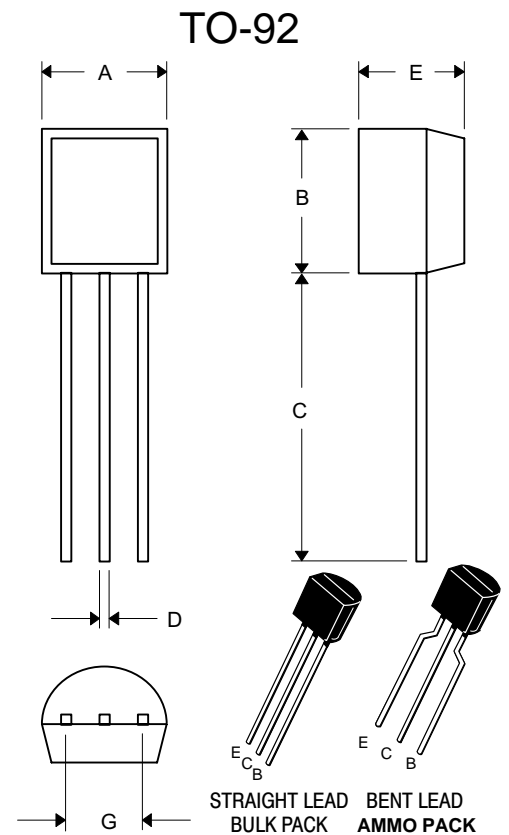
OFF CHARACTERISTICS

I_{CBO}	Collector-Base Cutoff Current ($V_{CB}=18Vdc, I_E=0$)	---	---	0.5	μA_{dc}
I_{EBO}	Emitter-Base Cutoff Current ($V_{EB}=4.0Vdc, I_C=0$)	---	---	0.5	μA_{dc}

ON CHARACTERISTICS

h_{FE-1}	DC Current Gain* ($I_C=1.0mA_{dc}, V_{CE}=6.0Vdc$)	40	---	200	---
f_T	Transition Frequency ($V_{CE}=6.0Vdc, I_C=1.0mA_{dc}$)	---	500	---	MHz

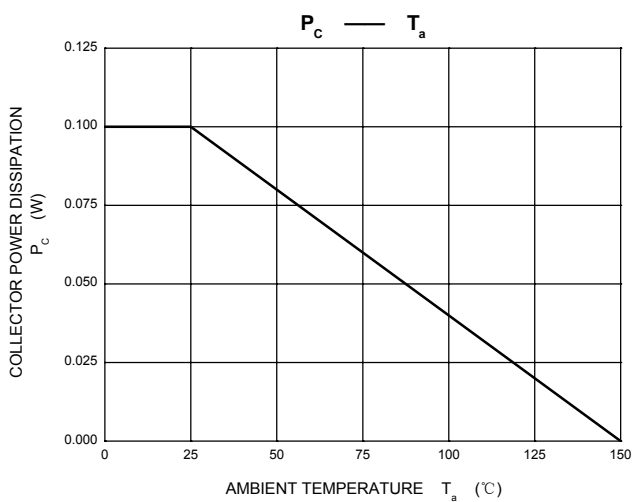
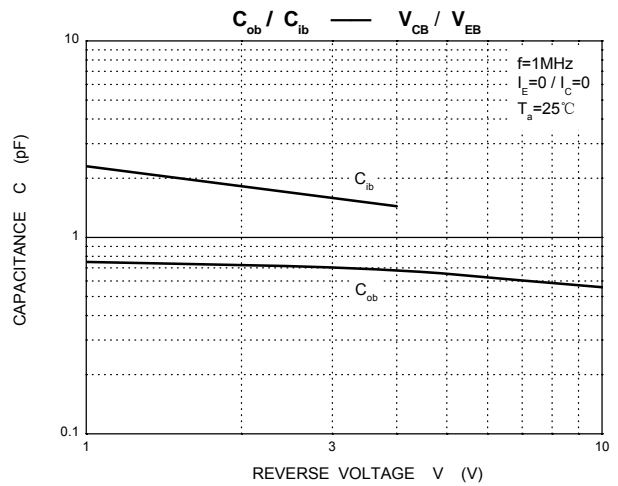
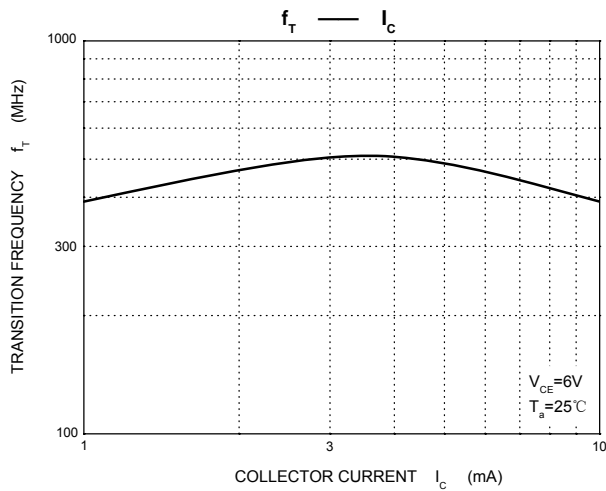
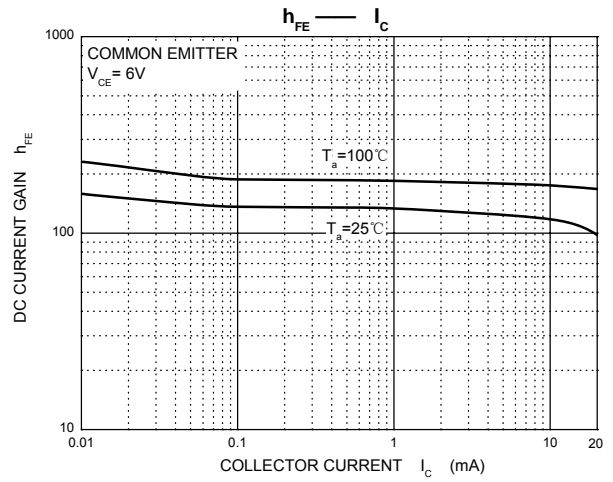
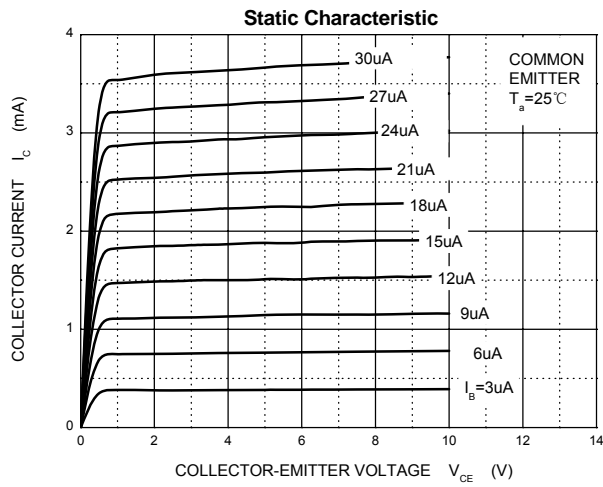
Note: $h_{FE(1)}$ Classification R: 40~80, O: 70~140, Y: 100~200



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 Bent Lead
	.173	.220	4.40	5.60	

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

2SC1923





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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