

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC1923-R 2SC1923-O 2SC1923-Y

Features

- General Purpose Switching Application
- Epoxy meets UL 94 V-0 flammability rating
- Moisure 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_{CEO}	Collector-Emitter Voltage	30	V	
V_{CBO}	Collector-Base Breakdown Voltage	40	V	
V_{EBO}	Emitter-Base Voltage	4.0	V	
lc	Collector Current	20	mA	
$R_{th,JA}$	Thermal Resistance Junction To Ambient	1250	°C/W	
P_{C}	Collector Power Dissipation	100	mW	
TJ	Operating Junction Temperature	-55 to +150	°C	
T _{STG}	Storage Temperature	-55 to +150	၀	

Electrical Characteristics @ 25°C Unless Otherwise Specified

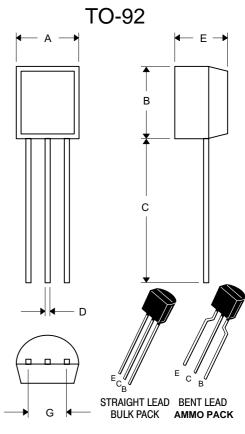
OFF CHARACTERISTICS					
CBO	llector-Base Cutoff Current _B =18Vdc, I _E =0)			0.5	uAdc
LBO	itter-Base Cutoff Current _B =4.0Vdc, I _C =0)			0.5	uAdc

ON CHARACTERISTICS

h _{FE-1}	DC Current Gain* (I _C =1.0mAdc, V _{CE} =6.0Vdc)	40		200	
f _⊤	Transition Frequency (V _{CE} =6.0Vdc, I _C =1.0mAdc)		500		MH_Z

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

Power Silicon NPN Transistor

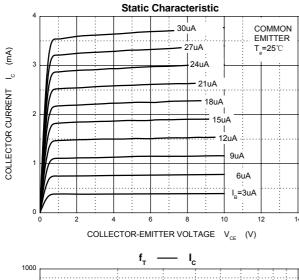


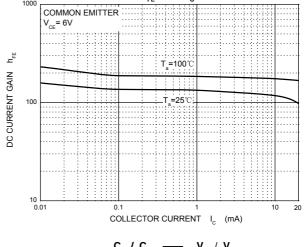
DIMENSIONS						
	INCHE	ΞS	MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.45	4.70		
С	.500		12.70			
D	.016	.020	0.41	0.63		
Е	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67	Straight Lead	
G	.173	.220	4.40	5.60	Bent Lead	

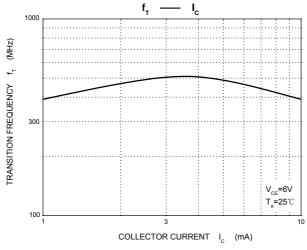
^{*} For ammo packing detailed specification, click here to visit our website of product packaging for details.

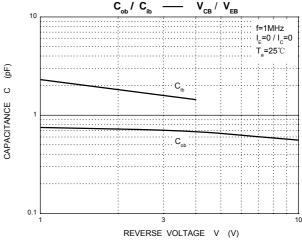


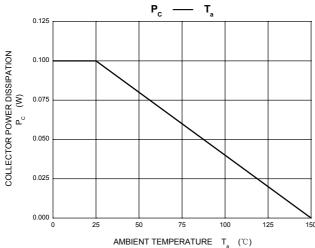
2SC1923













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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.