

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 Fax:

2SC1623-L5 2SC1623-L6 2SC1623-L7

Features

- Halogen free available upon request by adding suffix "-HF" Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) High DC Current Gain: h_{FE} =600 Max.(V_{CE} =6.0V, b_{CE} =1.0mA)
- High voltage: V_{CEO}=50V
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
$V_{\sf CBO}$	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current	100	mA
P_{C}	Collector power dissipation	200	mW
TJ	Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

	o			p	
Symbol	Parameter	Min	Тур	Max	Units
OFF CHARACTERISTICS					
Ісво	Collector Cutoff Current $(V_{CB}=60Vdc, I_E=0)$			0.1	uAdc
Ево	Emitter Cutoff Current (V _{ER} =5.0Vdc, I _C =0)			0.1	uAdc

ON CHARACTERISTICS

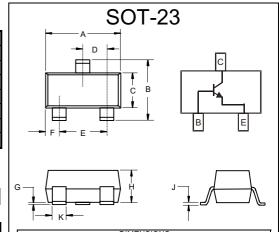
OH OHMIN	/ I EIII U I I U U				
h_F	DC Current Gain*				
	(l _c =1.0mAdc, V _{CE} =6.0Vdc)	135		600	
$V_{CE(sat)}$	Collector Saturation Voltage*				
	(l _c =100mAdc, l _s =10mAdc)		0.15	0.3	Vdc
$V_{BE(SAT)}$	Base Saturation Voltage*				
	(l _c =100mAdc,l _s =10mAdc)		0.86	1.0	Vdc
V_{BE}	Base Emitter Voltage*				
	(V _{CE} =6.0Vdc,	0.55	0.62	0.65	Vdc
C	Collector Capacitance				
C _{ob}	(V _{CB} =6.0Vdc, I _E =0, f=1.0MHz)		3.0		pF
f⊤	Gain Bandwidth product				
'T	(V _{CE} =6.0Vdc, I _E =10mAdc)		250		MHz

he CLASSIFICATION

Marking	L5	L6	L7
h _{FE}	135-270	200-400	300-600

^{*} Pulse Test PW<350us, duty cycle<2%

NPN Silicon Epitaxial Transistors



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

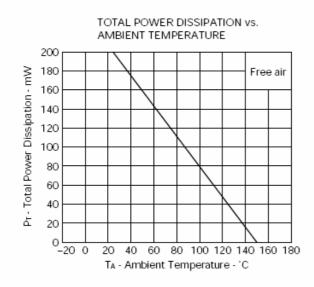
Suggested Solder

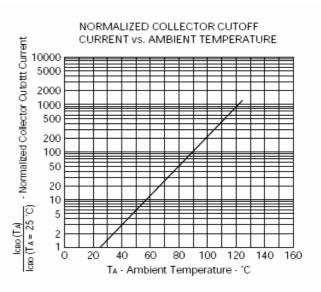
Pad Layout .031 .079 2.000 inches mm

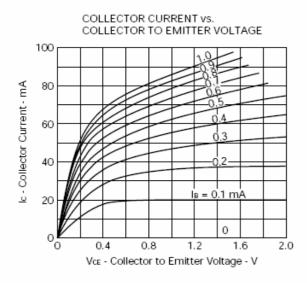


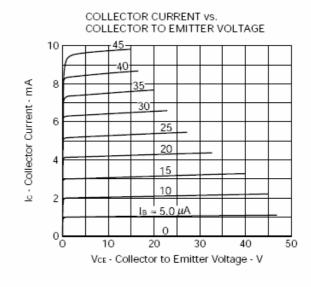
Typical Characteristics

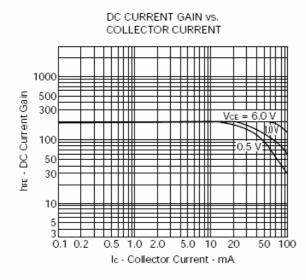
Micro Commercial Components

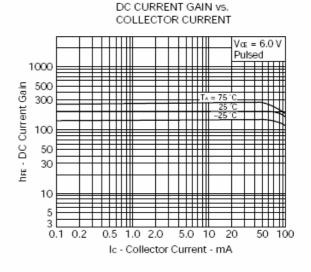






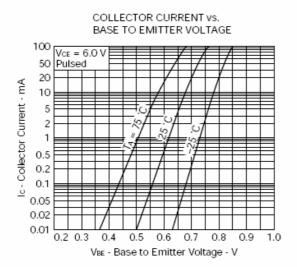


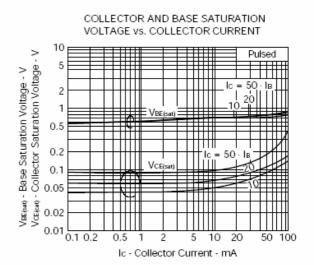


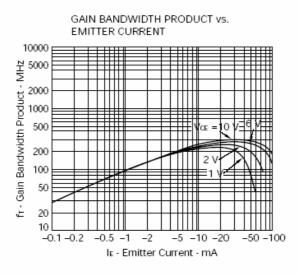


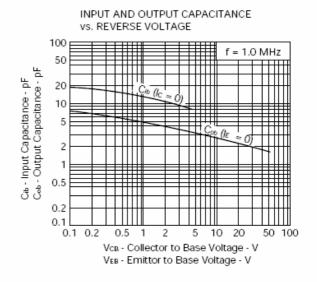


Typical Characteristics











Ordering Information:

Device	Packing
Part Number-TP	Tape &Reel 3 Kpcs/Reel

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