

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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_{EE} =600 Max.(V_{CE} =6.0 \acute{V} , l_{C} =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

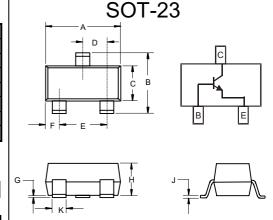
OH OHIMIN) I EIII O I I O O				
h_F	DC Current Gain*				
	(b=1.0mAdc, V _{CE} =6.0Vdc)	135		600	
$V_{CE(sat)}$	Collector Saturation Voltage*				
	(l _c =100mAdc, l _s =10mAdc)		0.15	0.3	Vdc
$V_{BE(SAT)}$	Base Saturation Voltage*				
	(l _c =100mAdc,l _s =10mAdc)		0.86	1.0	Vdc
V_{BE}	Base Emitter Voltage*				
	(V _{CE} =6.0Vdc, _C =1.0mAdc)	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				
f _⊤	$(V_{CE}=6.0Vdc, I_{E}=10mAdc)$		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	

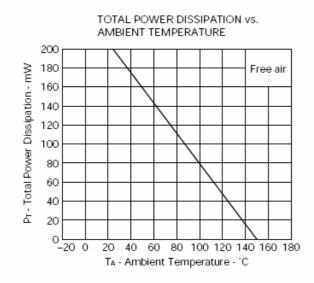
Suggested Solder

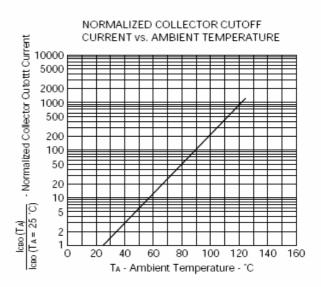
Pad Layout .031 .079 2.000 inches

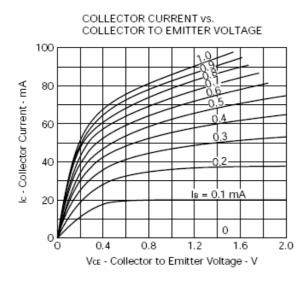


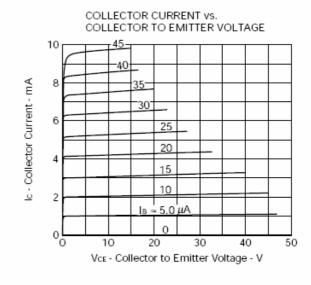
Typical Characteristics

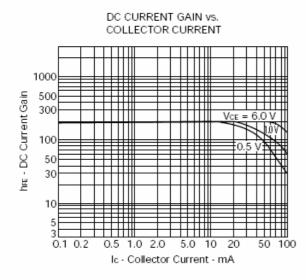
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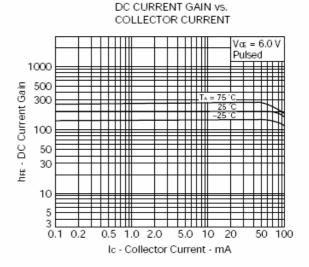








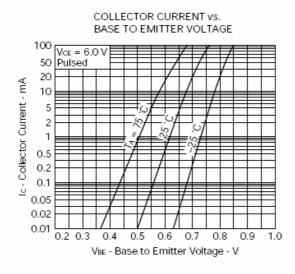


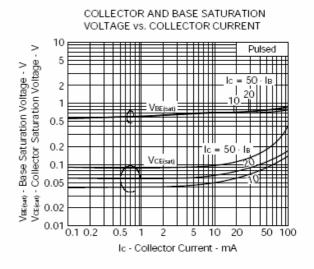


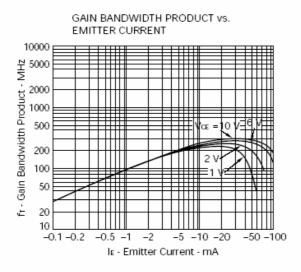


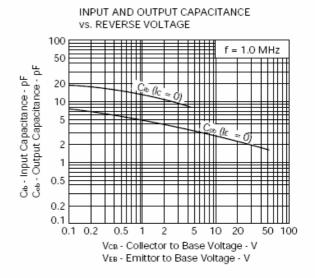
Typical Characteristics

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Ordering Information:

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

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

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