

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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2SC1623-L6 2SC1623-L7

Features

- High DC Current Gain: h_E=600 Max.(V_{CE}=6.0V, l_C=1.0mA)
- High voltage: V_{CEO}=50V
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings

Symbol	Rating	Rating	Unit
V_{CEO}	Collector-Emitter Voltage	50	V
V_{CBO}	Collector-Base Voltage	60	V
V_{EBO}	Emitter-Base Voltage	5.0	V
l _c	Collector Current	100	mA
Pc	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

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

ON CHARACTERISTICS

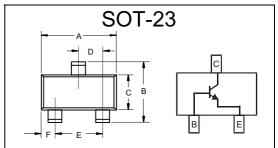
h_F	DC Current Gain*				
	(b=1.0mAdc, V _{CE} =6.0Vdc)	200		600	
$V_{CE(sat)}$	V _{CE(sat)} Collector Saturation Voltage*				
	(L=100mAdc, L=10mAdc)		0.15	0.3	Vdc
$V_{BE(SAT)}$	Base Saturation Voltage*				
l `´	(l _c =100mAdc,l _s =10mAdc)		0.86	1.0	Vdc
V_{BE}	Base Emitter Voltage*				
	(V _{CE} =6.0Vdc,	0.55	0.62	0.65	Vdc
_	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

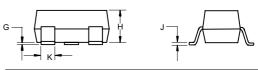
he CLASSIFICATION

Marking	L6	L7			
h _{FE}	200-400	400-600			

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

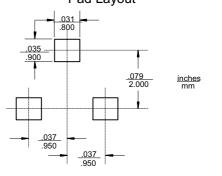
NPN Silicon Epitaxial Transistors





DIMENSIONS						
	INCHES	INCHES MM				
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
C	.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		
Η	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

Suggested Solder Pad Layout





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