

**Micro Commercial Components** 

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## 2SC1623-L6 2SC1623-L7

### **Features**

- High DC Current Gain: h<sub>EE</sub>=600 Max.(V<sub>CE</sub>=6.0V, l<sub>C</sub>=1.0mA)
- High voltage: V<sub>CEO</sub>=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 <sub>c</sub>	Collector Current	100	mA
Pc	Collector power dissipation	200	mW
TJ	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	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 <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)			0.1	uAdc	

#### **ON CHARACTERISTICS**

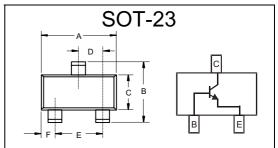
$h_{F}$	DC Current Gain*				
	(l <sub>c</sub> =1.0mAdc, V <sub>cE</sub> =6.0Vdc)	200		600	
$V_{CE(sat)}$	Collector Saturation Voltage*				
. , ,	(b=100mAdc, b=10mAdc)		0.15	0.3	Vdc
$V_{BE(SAT)}$	Base Saturation Voltage*				
l `´	(l <sub>c</sub> =100mAdc,l <sub>s</sub> =10mAdc)		0.86	1.0	Vdc
$V_{BE}$	Base Emitter Voltage*				
	(V <sub>CE</sub> =6.0Vdc,	0.55	0.62	0.65	Vdc
_	Collector Capacitance				
C <sub>ob</sub>	(V <sub>CB</sub> =6.0Vdc, I <sub>E</sub> =0, f=1.0MHz)		3.0		pF
· f	Gain Bandwidth product				
t <sub>T</sub>	(V <sub>CE</sub> =6.0Vdc, I <sub>E</sub> =10mAdc)		250		MHz

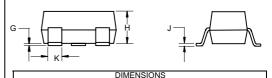
#### he CLASSIFICATION

Marking	L6	L7			
h <sub>FE</sub>	200-400	400-600			

<sup>\*</sup> Pulse Test PW<350us, duty cycle<2%

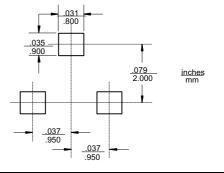
# NPN Silicon Epitaxial Transistors





DIMENSIONS						
	INCHES		ММ			
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		
H	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

#### Suggested Solder Pad Layout





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