

**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 (818) 701-4939 Fax:

### Features

- 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,  $L_{CE}$ =1.0mA)
- High voltage: V<sub>CEO</sub>=50V
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

### **Maximum Ratings**

Symbol	Rating	Rating	Unit
V <sub>CEO</sub>	Collector-Emitter Voltage	50	V
V <sub>CBO</sub>	Collector-Base Voltage	60	V
V <sub>EBO</sub>	Emitter-Base Voltage	5.0	V
_ <u>_</u>	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

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Symbol	Parameter	Min	Тур	Max	Units
<b>OFF CHARA</b>	CTERISTICS				
Ісво	Collector Cutoff Current (V <sub>CB</sub> =60Vdc,I <sub>E</sub> =0)			0.1	uAdc
EBO	Emitter Cutoff Current (V <sub>EB</sub> =5.0Vdc, I <sub>C</sub> =0)		0.1 uAdc		
ON CHARA	CTERISTICS				
h <sub>F</sub>	DC Current Gain* (lc=1.0mAdc, V <sub>CE</sub> =6.0Vdc)	200		600	
V <sub>CE(sat)</sub>	Collector Saturation Voltage* (L=100mAdc, L=10mAdc)		0.15	0.3	Vdc
$V_{BE(SAT)}$	Base Saturation Voltage* (L=100mAdc,L=10mAdc)		0.86	1.0	Vdc
$V_{BE}$	Base Emitter Voltage* (V <sub>CE</sub> =6.0Vdc, <sub>b</sub> =1.0mAdc)	0.55	0.62	0.65	Vdc
C <sub>ob</sub>	Collector Capacitance (V <sub>CB</sub> =6.0Vdc, I <sub>E</sub> =0, f=1.0MHz)		3.0		pF
f⊤	Gain Bandwidth product (V <sub>CE</sub> =6.0Vdc, I <sub>E</sub> =10mAdc)		250		MHz

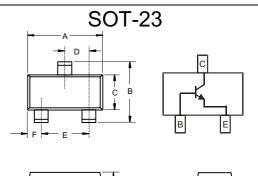
#### **hee CLASSIFICATION**

Marking	L6	L7
h <sub>FE</sub>	200-400	400-600
* Pulse Test PW<350us_duty.cvcle<2%		

PVV<350us, duty cycle<2%

# 2SC1623-L6 2SC1623-L7

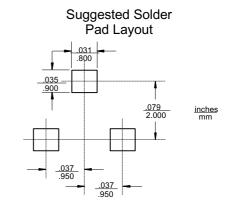
## **NPN Silicon Epitaxial Transistors**







	DIMENSIONS				
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
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	



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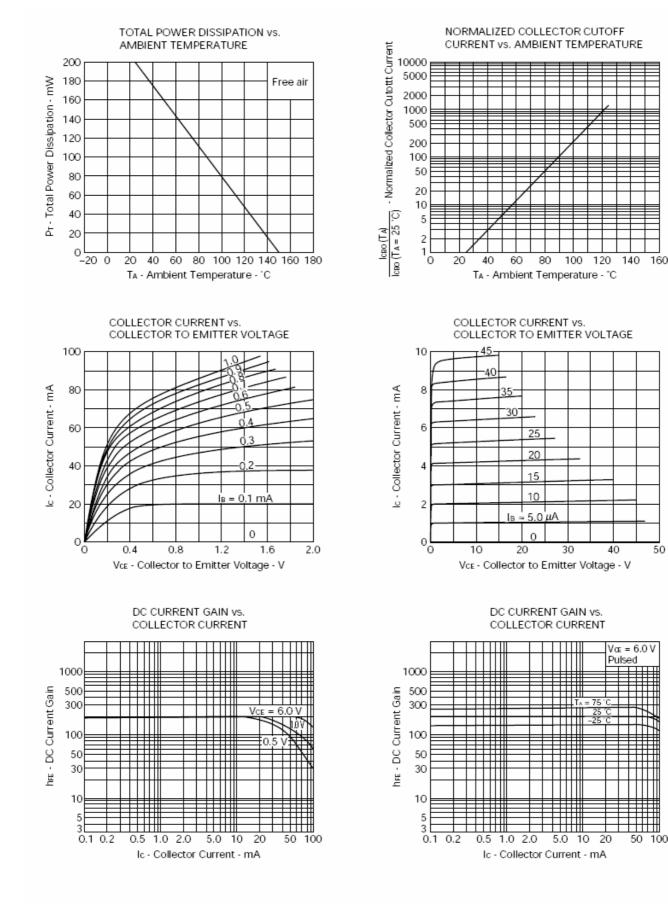
## **Typical Characteristics**

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#### **Micro Commercial Components**

160

50



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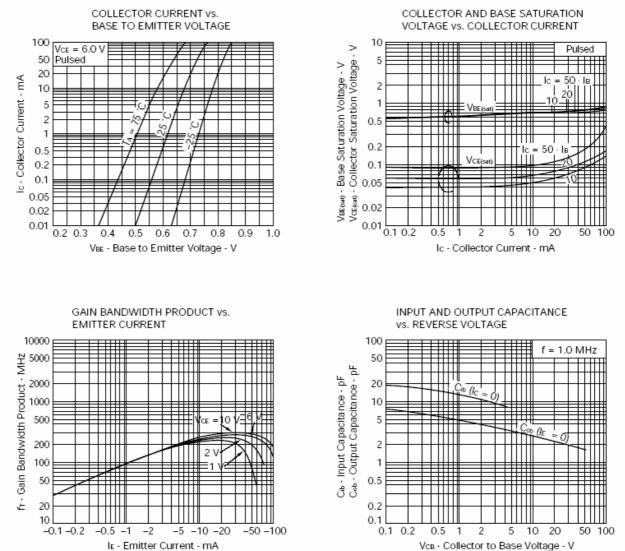
#### **Revision:** A

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### **Typical Characteristics**



#### VEB - Emittor to Base Voltage - V

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#### **Ordering Information :**

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

#### **\*\*\*IMPORTANT NOTICE\*\*\***

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