

**Micro Commercial Components** 

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

# 2SC2412K

# **Features**

- Power Dissipation: 0.2W (T<sub>A</sub>=25°C)
- Collector Current: 0.15A
- Collector-base Voltage: 60V
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

# **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	7.0	V
Ic	Collector Current	0.15	A
Pc	Collector power dissipation	0.2	W
TJ	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

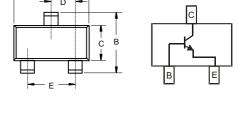
Electrical cilaracteristics @ 23 C Dilless Durchwise Shertilen						
Symbol	Parameter	Min	Тур	Max	Units	
<b>OFF CHARA</b>	OFF CHARACTERISTICS					
V <sub>CEO</sub>	Collector-Emitter Voltage (I <sub>c</sub> =1.0mAdc, I <sub>B</sub> =0)	50			Vdc	
V <sub>CBO</sub>	Collector-Base Voltage (I <sub>c</sub> =50uAdc, I <sub>E</sub> =0)	60			Vdc	
V <sub>EBO</sub>	Emitter-Base Voltage (I <sub>E</sub> =50uAdc, I <sub>C</sub> =0)	7.0			Vdc	
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =60Vdc,I <sub>E</sub> =0)			0.1	uAdc	
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =7.0Vdc, I <sub>C</sub> =0)			0.1	uAdc	
ON CHARA	CTERISTICS					
h <sub>FE</sub>	DC Current Gain (I <sub>c</sub> =1.0mAdc, V <sub>ce</sub> =6.0Vdc)	120		560		
V <sub>CE(sat)</sub>	Collector Saturation Voltage (I <sub>c</sub> =50mAdc, I <sub>B</sub> =5.0mAdc)			0.4	Vdc	
f <sub>T</sub>	Transition Frequency ( $V_{CE}$ =12Vdc, I <sub>C</sub> =2.0mAdc, f=100MHz)	150			MHz	

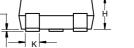
#### **CLASSIFICATION OF hFE**

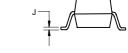
Rank	Q	R	S			
Range	120-270	180-390	270-560			
Marking	BQ	BR	BS			

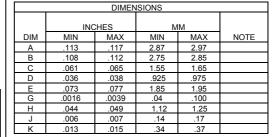
# SOT-23-3L

**NPN Silicon** 

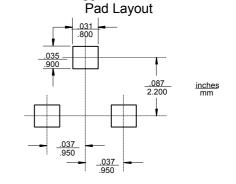








Suggested Solder



www.mccsemi.com



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