

Micro Commercial Components



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

### **Features**

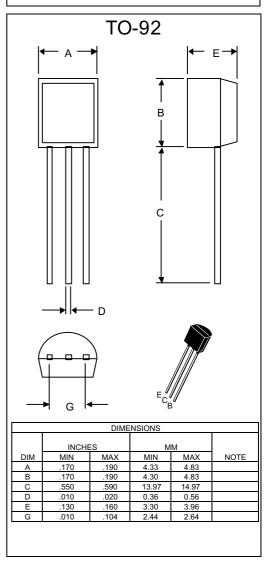
- 2SC1815 is NPN Silicon Epitaxial Transistor Designed for RF, AF Amplifier and General Purpose Applications.
- Capable of 0.4Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 60V
- Marking : C1815
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Operating and storage junction temperature range:-55°C to +125°C

Symbol	Para	ameter	Min	Max	Units
OFF CHARA	CTERISTICS				
$V_{(\text{BR})\text{CEO}}$	Collector-Emitter Breakdown Voltage* (t=0.1mAdc, t <sub>B</sub> =0)		50		Vdc
V <sub>(BR)CBO</sub>	Collector-Base Bre (l <sub>c</sub> =100uAdc, l <sub>e</sub> =	60		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breal (I <sub>E</sub> =100uAdc,I <sub>C</sub> =0	5		Vdc	
Сво	Collector Cutoff Co (V <sub>CB</sub> =60Vdc, ½=		0.1	uAdc	
I <sub>CEO</sub>	Collector Cutoff Cu (V <sub>CB</sub> =50Vdc, ½=		0.1	uAdc	
ЕВО	Emitter Cutoff Curr (V <sub>EB</sub> =5.0Vdc, է=		0.1	uAdc	
ON CHARAC	TERISTICS				
h <sub>FE(1)</sub>	DC Current Gain* (L=2.0mAdc, V <sub>c</sub>	70	700		
V <sub>CE(sat)</sub>	Collector-Emitter S (L=100mAdc, I <sub>B</sub> =		0.25	Vdc	
$V_{\text{BE(sat)}}$	Base-Emitter Satu (tc=100mAdc, ts=		1.0	Vdc	
V <sub>BE</sub>	Base-Emitter Volta (l₌=310mAdc)		1.45	Vdc	
SMALL-SIG	NAL CHARACTERIST	ICS			
f <sub>T</sub>	Transistor Frequency (t=1.0mAdc, V <sub>CE</sub> =10Vdc, f=30MHz)		80		MHz
<b>CLASSIFIC</b>	TION OF HEELD				
Rank	0	Y	GR	GR BL	
Range	70-140 120-240		200-400	350-700	

### Electrical Characteristics @ 25°C Unless Otherwise Specified

## 2SC1815-O 2SC1815-Y 2SC1815-GR 2SC1815-BL

## NPN Silicon Epitaxial Transistor



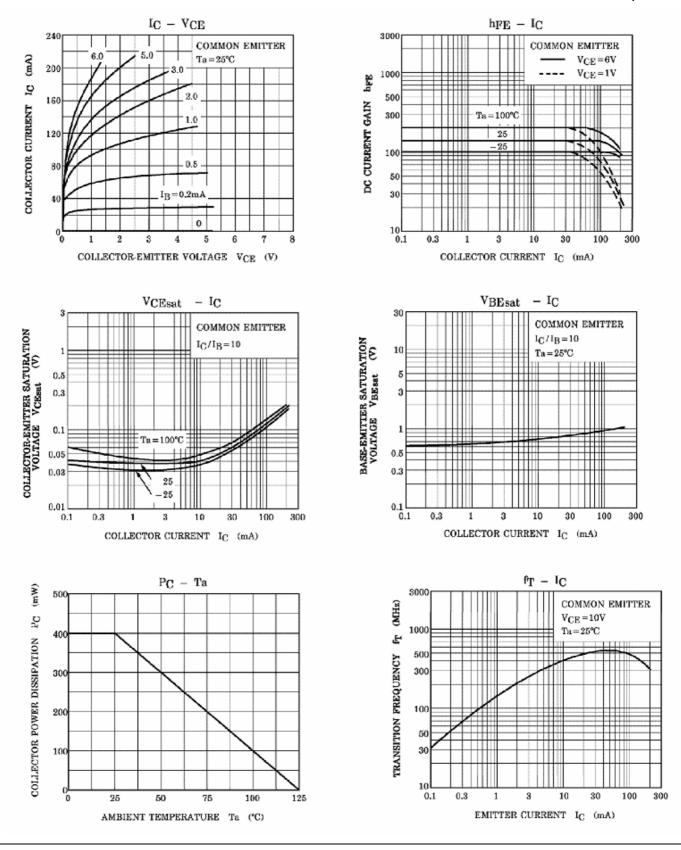
# www.mccsemi.com

2011/08/22

## 2SC1815 Typical Characteristics



**Micro Commercial Components** 



www.mccsemi.com





### **Ordering Information :**

Device	Packing	
Part Number-AP	Ammo Packing: 2Kpcs/Ammo Box	
Part Number-BP	Bulk: 100Kpcs/Carton	

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

*Micro Commercial Components Corp.* reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

### www.mccsemi.com