

Micro Commercial Components



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

Features

- Halogen free available upon request by adding suffix "-HF"
- 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
 Electrical Characteristics @ 25°C Unless Otherwise Specified

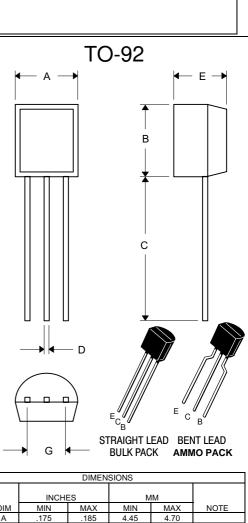
Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (L=0.1mAdc, I _B =0)	50		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage $(L=100\mu Adc, L=0)$	60		Vdc
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =100µAdc,I _C =0)	5		Vdc
Сво	Collector Cutoff Current (V _{CB} =60Vdc,		0.1	µAdc
I _{CEO}	Collector Cutoff Current (V _{CB} =50Vdc, <u></u> =0Adc)		0.1	µAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, <u>b</u> =0Adc)		0.1	µAdc
ON CHARAC	TERISTICS			
h _{FE(1)}	DC Current Gain* (t=2.0mAdc, V _{cE} =6.0Vdc)	70	700	
V _{CE(sat)}	Collector-Emitter Saturation Voltage (t =100mAdc, t =10mAdc)		0.25	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (৮=100mAdc,		1.0	Vdc
V _{BE}	Base-Emitter Voltage (ᡶ=310mAdc)		1.45	Vdc
SMALL-SIGI	VAL CHARACTERISTICS			
f _T	Transistor Frequency (t=1.0mAdc, V _{CE} =10Vdc, f=30MHz)	80		MHz
C _{OB}	Collector Output Capacitance (V _{CB} =10Vdc, I _E =0,f=1MHz)		3.5	pF
NF	Noise Figure (V _{CE} =6Vdc, lc=0.1mAdc,f=1KHz,Rg=10K)		10	dB
CLASSIFICA	TION OF Her th			
			-	

Rank	0	Y	GR	BL
Range	70-140	120-240	200-400	350-700
-				

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

NPN Silicon

Epitaxial Transistor



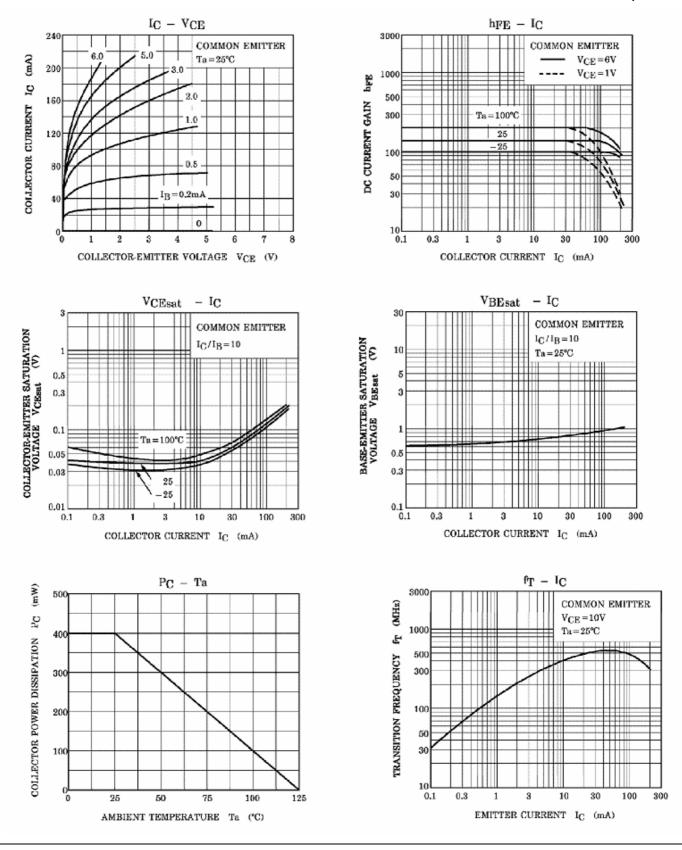
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.175	.185	4.45	4.70		
В	.175	.185	4.45	4.70		
С	.500		12.70			
D	.016	.020	0.41	0.63		
Е	.135	.145	3.43	3.68		
G	.095	.105	2.42	2.67	Straight Lead	
	.173	.220	4.40	5.60	Bent Lead	
* For ammo packing detailed specification, click here to visit our website of product packaging for details.						

www.mccsemi.com

2SC1815 Typical Characteristics



Micro Commercial Components



www.mccsemi.com



Ordering Information :

Device	Packing	
Part Number-AP	Ammo Packing: 20Kpcs/Carton	
Part Number-BP	Bulk: 100Kpcs/Carton	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-AP-HF

*****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