



Micro Commercial Components

Micro Commercial Components

20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 2SC1815-O 2SC1815-Y 2SC1815-GR 2SC1815-BL

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units	
OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (\(\mathbb{L} = 0.1 \text{mAdc}, \ \mathbb{L} = 0 \)	50		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (\(\frac{1}{6} = 100 \text{u} Adc, \(\frac{1}{6} = 0 \)	60		Vdc	
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc,I _C =0)	5		Vdc	
Сво	Collector Cutoff Current (V _{CB} =60Vdc, ½=0Adc)		0.1	uAdc	
I _{CEO}	Collector Cutoff Current (V _{CB} =50Vdc, ½=0Adc)		0.1	uAdc	
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, _U =0Adc)		0.1	uAdc	

ON CHARACTERISTICS

h _{FE(1)}	DC Current Gain*			
. ,	(├=2.0mAdc, V _{CE} =6.0Vdc)	70	700	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage			
	(l _c =100mAdc, l _s =10mAdc)		0.25	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
	(l _c =100mAdc, l _B =10mAdc)		1.0	Vdc
V_{BE}	Base-Emitter Voltage		1.45	Vdc
	(L=310mAdc)			

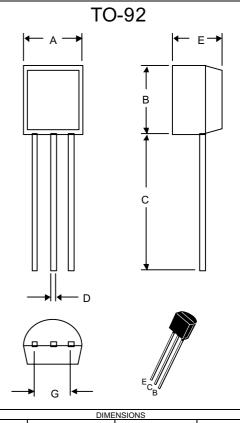
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency		
<u> </u>	(b=1.0mAdc, V _{CE} =10Vdc, f=30MHz)	80	MHz

CLASSIFICATION OF HEED

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

NPN Silicon Epitaxial Transistor



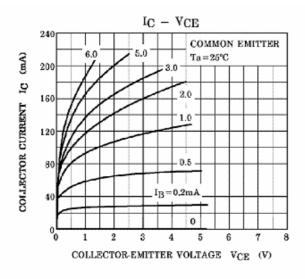
	INCHES		S MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
E	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

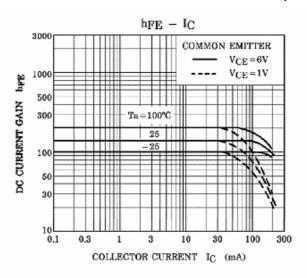
www.mccsemi.com

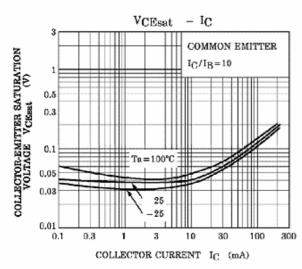
2SC1815 Typical Characteristics

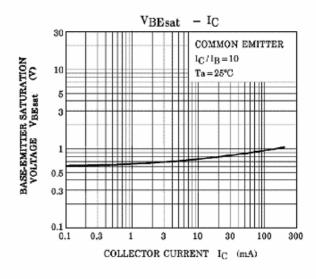


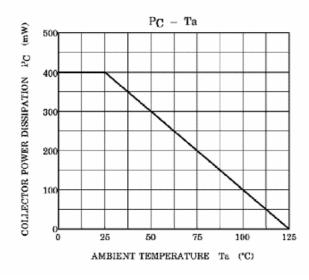
Micro Commercial Components

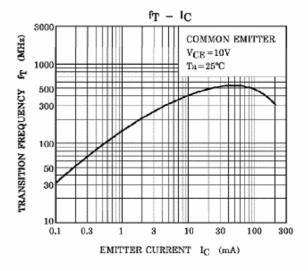














Micro Commercial Components

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.