

Micro Commercial Components



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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

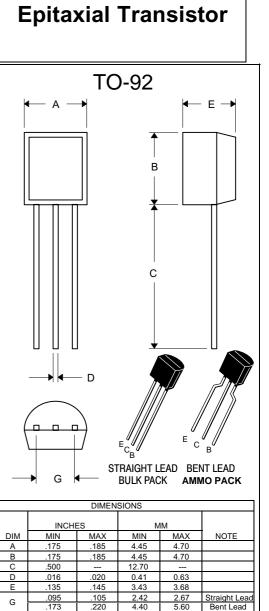
Symbol	Parameter	Min	Max	Units
OFF CHARA	CTERISTICS			
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage (L=0.1mAdc, L=0)	50		Vdc
V _{(BR)CBO}	Collector-Base Breakdown Voltage (l _c =100uAdc, l _e =0)	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc,I _C =0)	5		Vdc
Сво	Collector Cutoff Current (V _{CB} =60Vdc,		0.1	uAdc
I _{CEO}	Collector Cutoff Current (V _{CB} =50Vdc,		0.1	uAdc
I _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, <u></u> =0Adc)		0.1	uAdc
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 (L=100mAdc, L=10mAdc)		0.25	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage (t _c =100mAdc, t _B =10mAdc)		1.0	Vdc
V_{BE}	Base-Emitter Voltage (t₌=310mAdc)		1.45	Vdc
SMALL-SIG	NAL 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

CLASSIFICATION OF Herein Rank O Y GR BL Rank O Y GR BL

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

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

NPN Silicon



* For ammo packing detailed specification, click here to visit our website of product packaging for details.

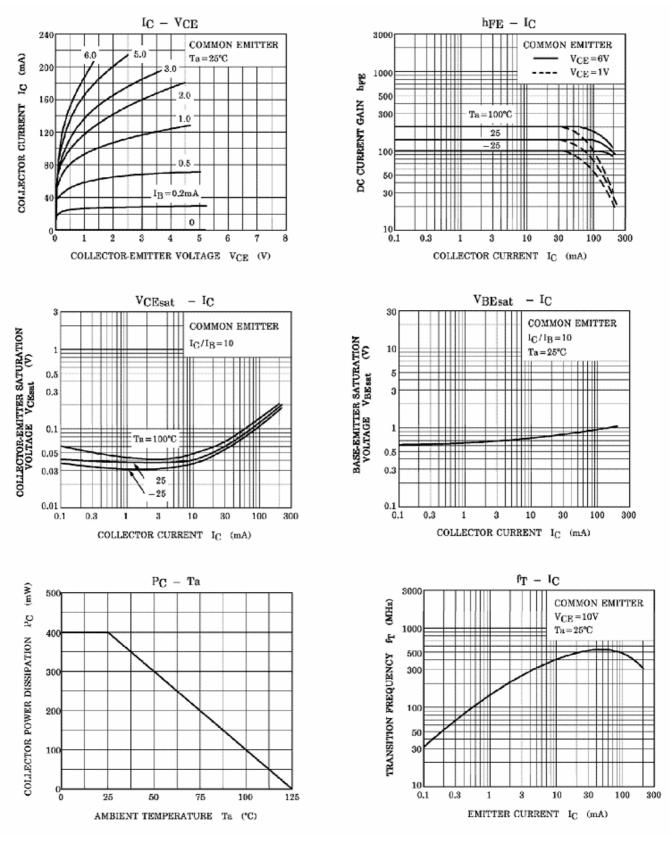
www.mccsemi.com

Revision: G

2013/01/01

2SC1815 Typical Characteristics





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Ordering Information :

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

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

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CUSTOMER AWARENESS

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