



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

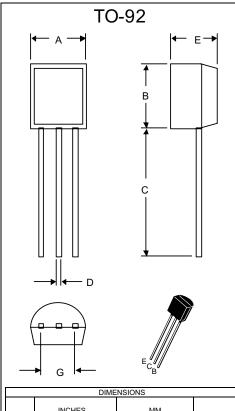
- 2SC1815 is NPN Silicon Epitaxial Transistor Designed for RF, AF Amplifier and General Purpose Applications.
- Capable of 0.4Watts of Power Dissipation.
- Collector-current 0.15A
- Collector-base Voltage 60V
- Marking: C1815
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- 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 CHARA	CTERISTICS			
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (L=0.1mAdc, L=0)	J		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage (t=100uAdc, t=0)	60		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =100uAdc,I _C =0)	5		Vdc
I _{CBO}	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, _C =0Adc)		0.1	uAdc
ON CHARAC	TERISTICS			
h _{FE(1)}	DC Current Gain* (L=2.0mAdc, V _{CE} =6.0Vdc)	70	700	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (b=100mAdc, l _B =10mAdc)		0.25	Vdc
$V_{\text{BE}(\text{sat})}$	Base-Emitter Saturation Voltage (L=100mAdc, L=10mAdc)		1.0	Vdc
V_{BE}	Base-Emitter Voltage (_E =310mAdc)		1.45	Vdc
SMALL-SIG	NAL CHARACTERISTICS			
f _T	Transistor Frequency (b=1.0mAdc, Vc=10Vdc, f=30MHz)	80		MHz

120-240

NPN Silicon Epitaxial Transistor



DIMENSIONS							
	INCHES		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			
Е	.130	.160	3.30	3.96			
G	.010	.104	2.44	2.64			

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BL

350-700

GR

200-400

CLASSIFICATION OF HEED

0

70-140

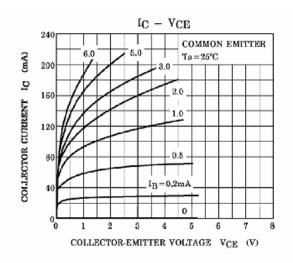
Rank

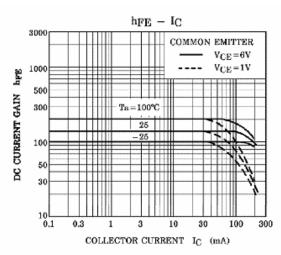
Range

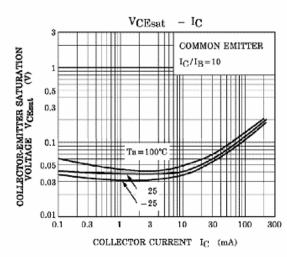
2SC1815 Typical Characteristics

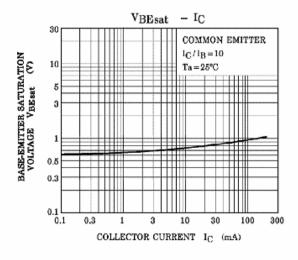


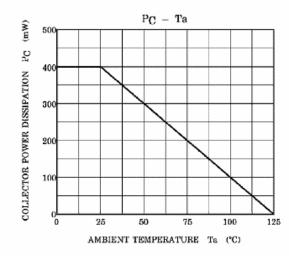


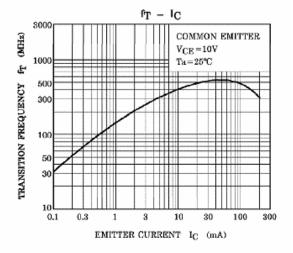














Ordering Information:

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

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