



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* (\(\frac{1}{6} = 0.1 \text{mAdc}, \frac{1}{6} = 0. \)	50		Vdc	
V _{(BR)CBO}	Collector-Base Breakdown Voltage (\(\frac{1}{6} = 100 \text{uAdc}, \(\frac{1}{6} = 0 \)	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	
l _{CEO}	Collector Cutoff Current (V _{CB} =50Vdc, ½=0Adc)		0.1	uAdc	
l _{EBO}	Emitter Cutoff Current (V _{EB} =5.0Vdc, _b =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 _B =10mAdc)		0.25	Vdc
V _{BE(sat)}	Base-Emitter Saturation Voltage			
	(l _c =100mAdc, l _s =10mAdc)		1.0	Vdc
V_{BE}	Base-Emitter Voltage		1.45	Vdc
	(<u></u> =310mAdc)			

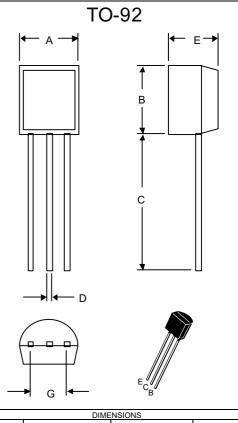
SMALL-SIGNAL CHARACTERISTICS

f_T	Transistor Frequency		
	(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



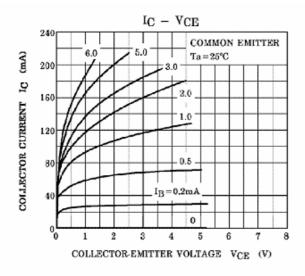
DIMENSIONS					
	INCHES		HES MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.170	.190	4.33	4.83	
В	.170	.190	4.30	4.83	
С	.550	.590	13.97	14.97	
D	.010	.020	0.36	0.56	
Е	.130	.160	3.30	3.96	
G	.010	.104	2.44	2.64	

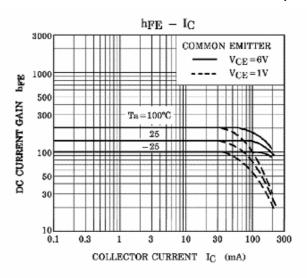
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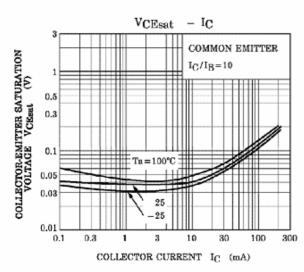
2SC1815 Typical Characteristics

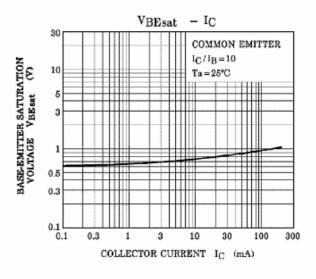


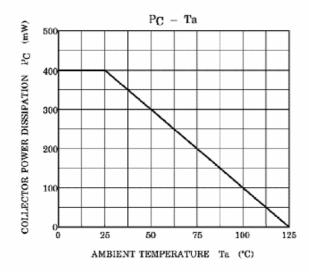
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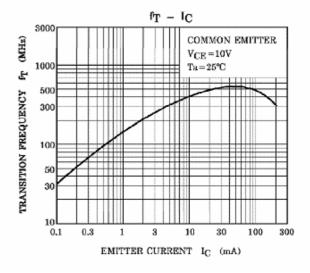














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Ordering Information:

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

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