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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	50		Vdc	
	$(l_c=0.1 \text{mAdc}, l_B=0)$				
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	60		Vdc	
	$(l_c=100uAdc, l_e=0)$				
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage	5		Vdc	
	$(I_E=100uAdc,I_C=0)$				
Ісво	Collector Cutoff Current		0.1	uAdc	
	(V _{CB} =60Vdc, <u></u> =0Adc)				
l _{ceo}	Collector Cutoff Current		0.1	uAdc	
	(V _{CB} =50Vdc, ½=0Adc)				
I _{EBO}	Emitter Cutoff Current		0.1	uAdc	
	(V _{EB} =5.0Vdc, _b =0Adc)				

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=100mAdc, L=10mAdc)		1.0	Vdc
	1			
V_{BE}	Base-Emitter Voltage		1.45	Vdc
	(⊨=310mAdc)			

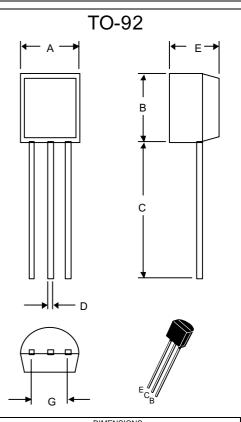
SMALL-SIGNAL CHARACTERISTICS

f _⊤	Transistor Frequency (b=1.0mAdc, V _{CE} =10Vdc, f=30MHz)	80		MHz
С _{ОВ}	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 HELD

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

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	

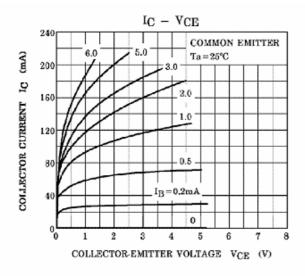
www.mccsemi.com

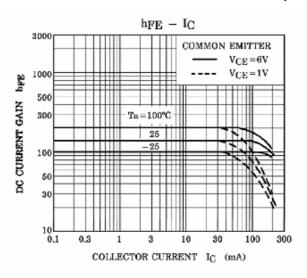
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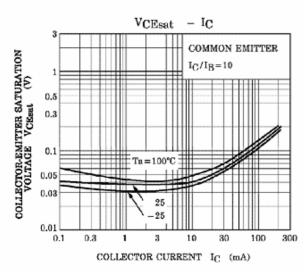
2SC1815 Typical Characteristics

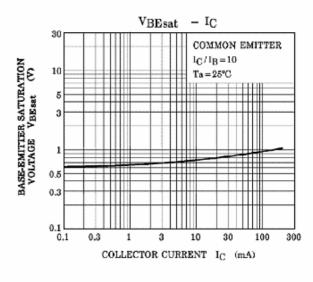


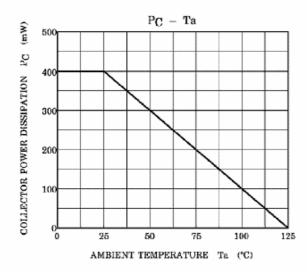
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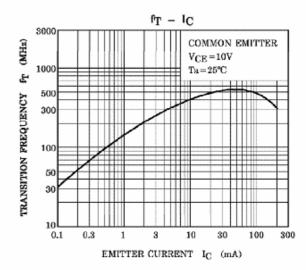














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Ordering Information:

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

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