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

SILICON NPN TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2SC1815 Series are silicon NPN transistors, manufactured by the epitaxial planar process, designed for general purpose amplifier applications.

MARKING: FULL PART NUMBER



 V_{CE} =10V, I_{C} =1.0mA, f=30MHz

 f_{T}

MAXIMUM RA	ATINGS: (T _A =25°C unless otherwise	noted)		
		SYMBOL		UNITS
Collector-Base Voltage		V _{СВО}	60	V
Collector-Emitter Voltage		VCEO	50	V
Emitter-Base Voltage		V_{EBO}	5.0	V
Continuous Collector Current		IC	150	mA
Power Dissipation		P_{D}	400	mW
Operating and Storage Junction Temperature		T _J , T _{stg}	-55 to +125	°C
Thermal Resistance		$\Theta_{\sf JA}$	250	°C/W
ELECTRICAL	. CHARACTERISTICS: (T _A =25°C unl	less otherwise r	noted)	
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =60V		100	nA
ICEO	V _{CE} =50V		100	nA
I _{EBO}	V _{EB} =5.0V		100	nA
BV _{CBO}	I _C =100μA	60		V
BV _{CEO}	I _C =100μA	50		V
BVEBO	I _E =100μA	5.0		V
V _{CE(SAT)}	I _C =100mA, I _B =10mA		0.25	V
V _{BE(SAT)}	I _C =100mA, I _B =10mA		1.0	V
V _{BE}	I _E =310mA		1.45	V
h_{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815)	70	700	
h_{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815-O)	70	140	
hFE	V_{CE} =6.0V, I_{C} =2.0mA (2SC1815-Y)	120	240	
h _{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815-GF	R) 200	400	
h _{FE}	V_{CE} =6.0V, I_{C} =2.0mA (2SC1815-BL) 350	700	

80

MHz

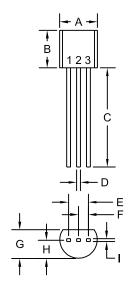
2SC1815 2SC1815-O 2SC1815-Y 2SC1815-GR 2SC1815-BL





TO-92 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.175	0.205	4.45	5.21			
В	0.170	0.210	4.32	5.33			
С	0.500	-	12.70	-			
D	0.016	0.022	0.41	0.56			
Е	0.100		2.54				
F	0.050		1.27				
G	0.125	0.165	3.18	4.19			
Н	0.080	0.105	2.03	2.67			
	0.015		0.38				

TO-92 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Collector 3) Base

MARKING: FULL PART NUMBER

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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