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.





MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)							
Collector-Base Voltage		SYMBOL V _{CBO}	60	UNITS V			
Collector-Emitter Voltage		VCEO	50	V			
Emitter-Base	Voltage	VEBO	5.0	V			
Continuous Collector Current		I _C	150	mA			
Power Dissipation		P_{D}	400	mW			
Operating and Storage Junction Temperature		T _J , T _{stq}	-55 to +125	°C			
Thermal Resistance		$\Theta_{\sf JA}$	250	°C/W			
FLECTRICA	L CHARACTERISTICS: (T _A =25°C unle		noted)				
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS			
I _{CBO}	V _{CB} =60V		100	nA			
I _{CEO}	V _{CE} =50V		100	nA			
I _{EBO}	V _{EB} =5.0V		100	nA			
BV_{CBO}	I _C =100μA	60		V			
BVCEO	I _C =100μA	50		V			
BV_{EBO}	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				
h_{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815-Y)	120	240				
h_{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815-GR) 200	400				
h _{FE}	V _{CE} =6.0V, I _C =2.0mA (2SC1815-BL)	350	700				
f_{T}	V_{CE} =10V, I_{C} =1.0mA, f=30MHz	80		MHz			

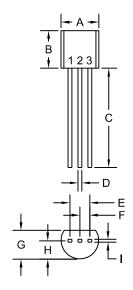
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TO-92 CASE - MECHANICAL OUTLINE

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			
l	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 quick 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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