

CZR1-04C

SURFACE MOUNT SILICON
DUAL, COMMON CATHODE
HIGH VOLTAGE RECTIFIER



SOT-223 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZR1-04C is a general purpose dual silicon rectifier, connected in a common Cathode configuration, designed for applications requiring high voltage capability.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

Reverse Voltage
Peak Reverse Voltage
Average Forward Current
Peak Forward Surge Current, $t=10\text{ms}$
Operating and Storage Junction Temperature
Power Dissipation
Thermal Resistance

SYMBOL

V_R 400
 V_{RM} 400
 I_O 2.0
 I_{FSM} 10
 T_J, T_{stg} -65 to +150
 P_D 2.0
 Θ_{JA} 62.5

UNITS

V
V
A
A
 $^{\circ}\text{C}$
W
 $^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

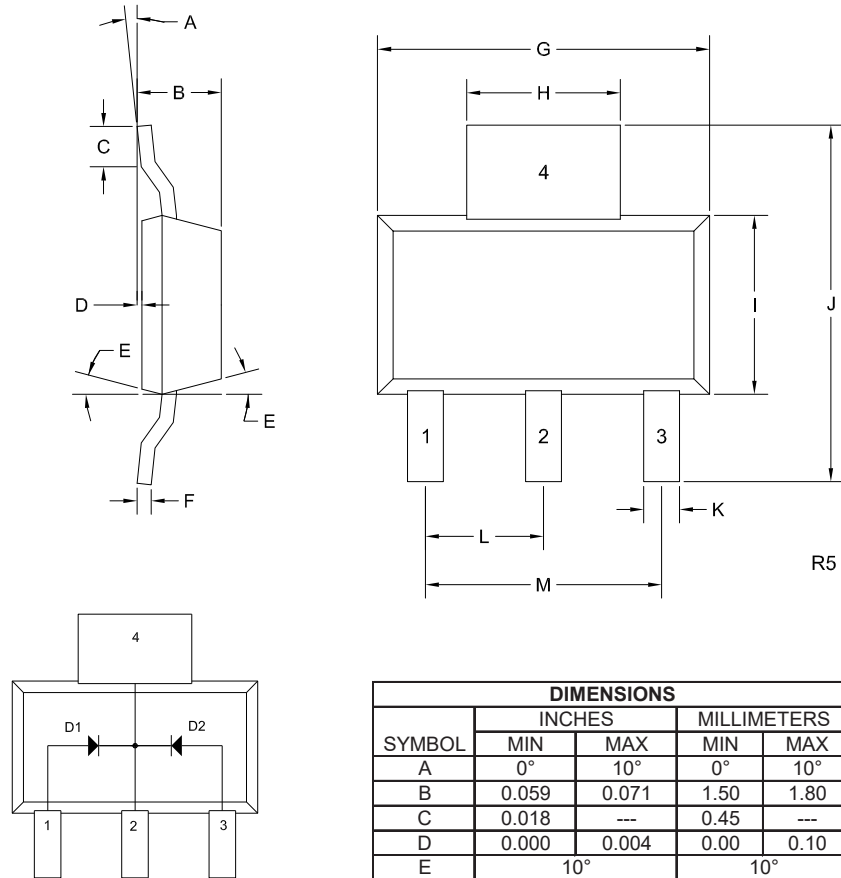
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=400\text{V}$			1.0	μA
I_R	$V_R=400\text{V}, T_A=150^{\circ}\text{C}$			50	μA
BV_R	$I_R=100\mu\text{A}$	400			V
V_F	$I_F=1.0\text{A}$			1.2	V
V_F	$I_F=2.0\text{A}$			1.5	V
t_{rr}	$I_F=200\text{mA}, I_R=200\text{mA}, I_{rr}=20\text{mA}$		1.0		μs
C_J	$V_R=0, f=1.0\text{MHz}$		26		pF

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SOT-223 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Anode D1
 - 2) Cathode D1, D2
 - 3) Anode D2
 - 4) Cathode D1, D2
- Pin 2 and Pin 4 are common.

MARKING: FULL PART NUMBER

SOT-223 (REV: R5)

R9 (7-May 2019)

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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