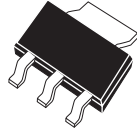


CZR1-04C

SURFACE MOUNT
HIGH VOLTAGE
DUAL COMMON CATHODE
SILICON RECTIFIER



SOT-223 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZR1-04C type is a Silicon General Purpose Dual Rectifier, connected in a Common Cathode configuration, designed for applications requiring high voltage capability.

MARKING CODE: FULL PART NUMBER

MAXIMUM RATINGS (T_A=25°C)

Reverse Voltage
Peak Reverse Voltage
Average Forward Current
Peak Forward Surge Current, t=1.0μs
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

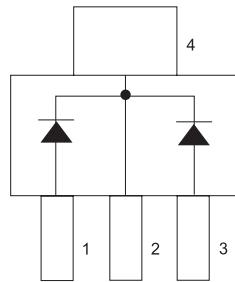
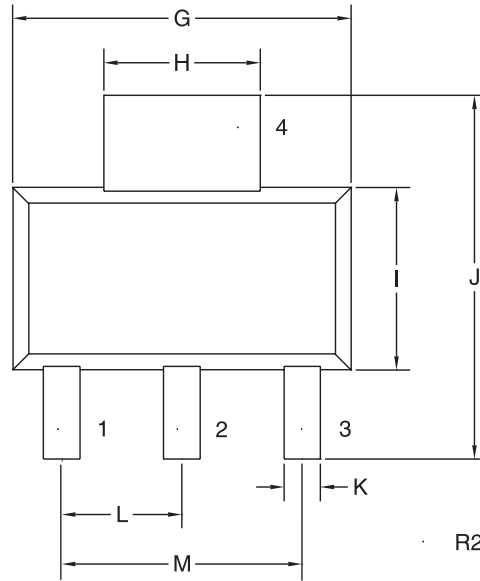
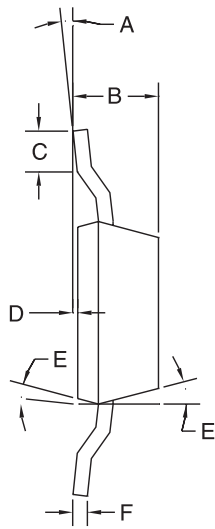
V
V
A
A
°C
W
°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	TYP	MAX	UNITS
I _R	V _R =400V			1.0	μA
I _R	V _R =400V, T _A =150°C			50	μA
BV _R	I _R =100μA	400			V
V _F	I _F =1.0A			1.2	V
V _F	I _F =2.0A			1.5	V
t _{rr}	I _F =200mA, I _R =200mA, I _{RR} =20mA		1.0		μs
C _J	V _R =0V, f=1.0MHz		10		pF

R3 (14-November 2002)

SOT-223 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE 1
- 2) CATHODE
- 3) ANODE 2
- 4) CATHODE

MARKING CODE:

FULL PART NUMBER

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0°	7°	0°	7°
B	0.063	0.067	1.60	1.70
C	0.022		0.55	
D	0.001	0.004	0.03	0.10
E	15°		15°	
F	0.009	0.013	0.23	0.33
G	0.248	0.264	6.30	6.71
H	0.114	0.122	2.90	3.10
I	0.130	0.146	3.30	3.71
J	0.264	0.287	6.71	7.29
K	0.024	0.031	0.61	0.79
L	0.091		2.31	
M	0.181		4.60	

SOT-223 (REV: R2)