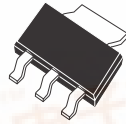


CZR1-04

**SURFACE MOUNT
HIGH VOLTAGE RECTIFIER**



SOT-223 CASE

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

Reverse Voltage
Peak Reverse Voltage
Average Forward Current
Peak Forward Surge Current, $t=1.0\mu\text{s}$
Operating and Storage
Junction Temperature
Power Dissipation
Thermal Resistance

SYMBOL

V_R 400
 V_{RM} 400
 I_O 1.0
 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: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL TEST CONDITIONS

MIN

TYP

MAX

UNITS

I_R $V_R=400\text{V}$
 I_R $V_R=400\text{V}, T_A=150^\circ\text{C}$
 BV_R $I_R=100\mu\text{A}$
 V_F $I_F=1.0\text{A}$
 V_F $I_F=2.0\text{A}$
 t_{rr} $I_F=200\text{mA}, I_R=200\text{mA}, I_{RR}=20\text{mA}$
 C_J $V_R=0\text{V}, f=1.0\text{MHz}$

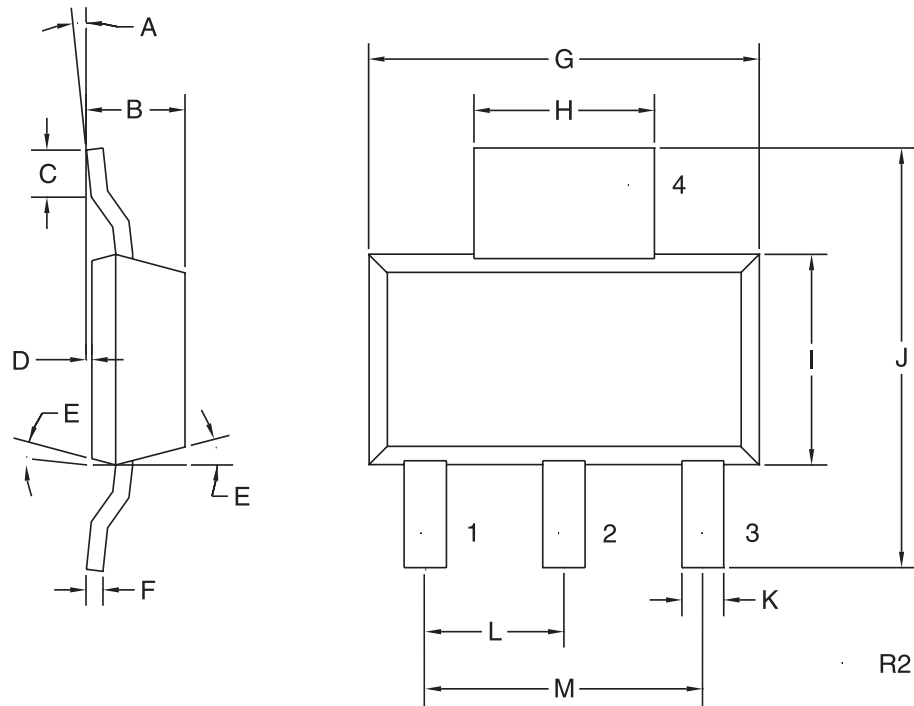
400

1.0 μA
50 μA
V
V
V
1.2
1.5
1.0 μs
10 pF

R0 (14-November 2001)

**SURFACE MOUNT
HIGH VOLTAGE RECTIFIER**

SOT-223 CASE- MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE
- 2) CATHODE
- 3) NO CONNECTION
- 4) CATHODE

SYMBOL	DIMENSIONS			
	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)