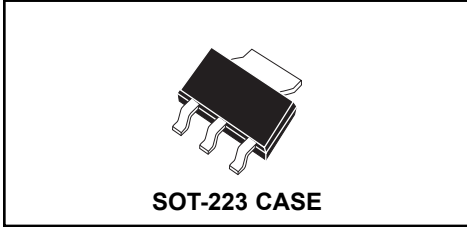


CZS5064
SURFACE MOUNT
SILICON CONTROLLED RECTIFIER



CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZS5064 type is an epoxy molded PNP Silicon Controlled Rectifier manufactured in an epoxy molded surface mount package, designed for control systems and sensing circuit applications.

MARKING CODE: FULL PART NUMBER

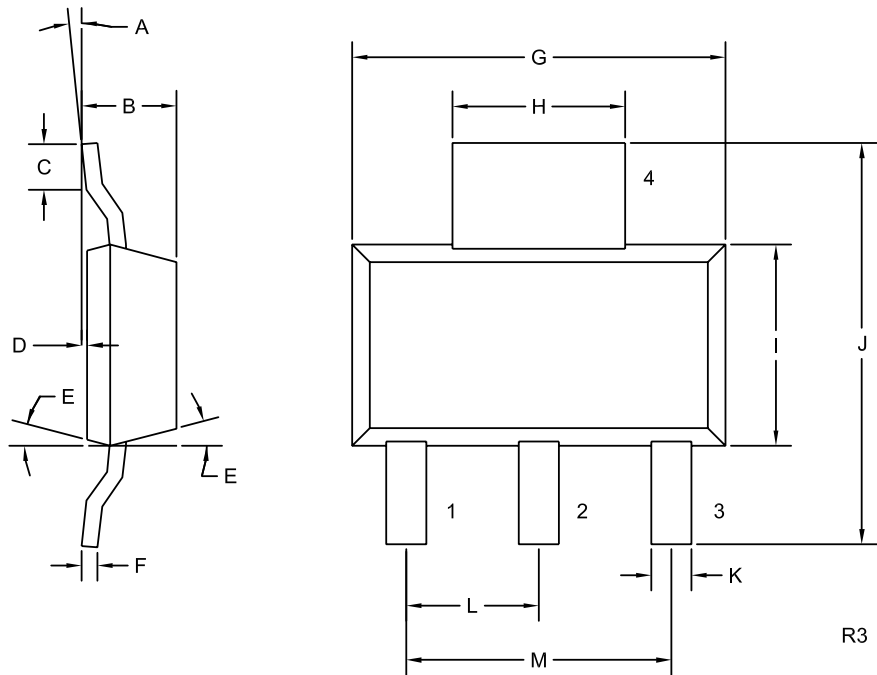
MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Off-State Voltage	V_{DRM}	400	V
Peak Repetitive Reverse Voltage	V_{RRM}	400	V
RMS On-State Current	$I_T(\text{RMS})$	0.8	A
Average On-State Current ($T_C=67^{\circ}\text{C}$)	$I_T(\text{AV})$	0.51	A
Operating Junction Temperature	T_J	-40 to +125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40 to +150	$^{\circ}\text{C}$
Thermal Resistance	θ_{JA}	150	$^{\circ}\text{C}/\text{W}$
Thermal Resistance	θ_{JC}	25	$^{\circ}\text{C}/\text{W}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_{DRM}	$V_D=400\text{V}, R_{GK}=1.0\text{K}\Omega, T_C=125^{\circ}\text{C}$			50	μA
I_{RRM}	$V_D=400\text{V}, R_{GK}=1.0\text{K}\Omega, T_C=125^{\circ}\text{C}$			50	μA
V_T	$I_T=1.2\text{A}$			1.7	V
I_{GT}	$V_D=7.0\text{V}, R_L=100\Omega, R_{GK}=1.0\text{K}\Omega$			200	μA
V_{GT}	$V_D=7.0\text{V}, R_L=100\Omega, R_{GK}=1.0\text{K}\Omega$			0.8	V
V_{GD}	$V_D=400\text{V}, R_L=100\Omega, T_C=125^{\circ}\text{C}$	0.1			V
I_H	$V_D=7.0, R_{GK}=1.0\text{K}\Omega$			5.0	mA
t_{ON}	$V_D=400\text{V}, I_{GT}=1.0\text{mA}, I_F=1.0\text{A}, R_{GK}=1\text{K}\Omega, di/dt=6.0\text{A}/\mu\text{s}$		2.8		μs

SOT-223 CASE - MECHANICAL OUTLINE



LEAD CODE:

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

MARKING CODE:

FULL PART NUMBER

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0°	10°	0°	10°
B	0.059	0.071	1.50	1.80
C	0.018	---	0.45	---
D	0.000	0.004	0.00	0.10
E	15°		15°	
F	0.009	0.014	0.23	0.35
G	0.248	0.264	6.30	6.70
H	0.114	0.122	2.90	3.10
I	0.130	0.146	3.30	3.70
J	0.264	0.287	6.70	7.30
K	0.024	0.033	0.60	0.85
L	0.091		2.30	
M	0.181		4.60	

SOT-223 (REV: R3)

R3 (17-June 2004)