CZS5064

SURFACE MOUNT
SILICON CONTROLLED RECTIFIER



SOT-223 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

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

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°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	$I_{T(RMS)}$	0.8	A
Average On-State Current (T_C=67°C)	$I_{T(AV)}$	0.51	A
Operating Junction Temperature	T_J	-40 to +125	°C
Storage Temperature	T_{stg}	-40 to +150	°C
Thermal Resistance	Θ_{JA}	150	°C/W
Thermal Resistance	Θ_{JC}	25	°C/W

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

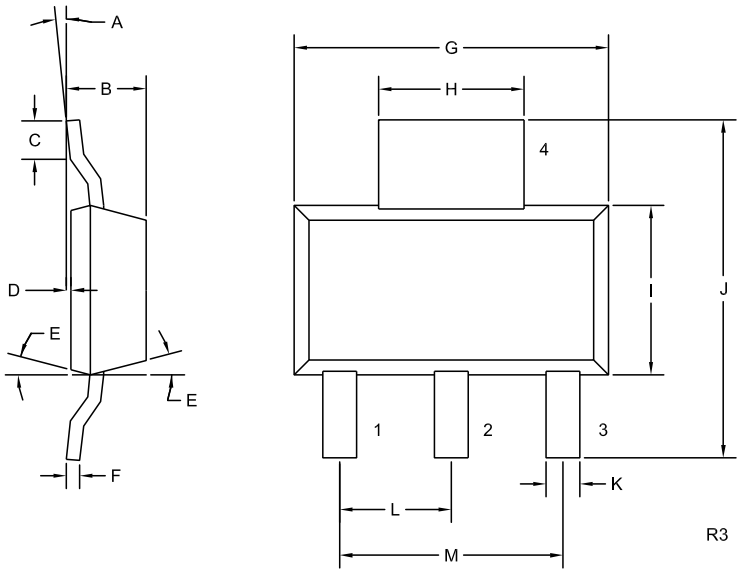
SYMBOL	**TEST CONDITIONS**	**MIN**	**TYP**	**MAX**	**UNITS**
I_{DRM}	V_D=400V, R_{GK}=1.0KΩ, T_C=125°C			50	μA
I_{RRM}	V_D=400V, R_{GK}=1.0KΩ, T_C=125°C			50	μA
V_T	I_T=1.2A			1.7	V
I_{GT}	V_D=7.0V, R_L=100Ω, R_{GK}=1.0KΩ			200	μA
V_{GT}	V_D=7.0V, R_L=100Ω, R_{GK}=1.0KΩ			0.8	V
V_{GD}	V_D=400V, R_L=100Ω,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

R4 (23-February 2010)

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SOT-223 CASE - MECHANICAL OUTLINE



LEAD CODE:
1) Cathode
2) Anode
3) Gate
4) Anode

MARKING: FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)