CMPS5061
CMPS5062
CMPS5063
CMPS5064

SURFACE MOUNT
SILICON CONTROLLED RECTIFIER

SOT-23 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPS5061 Series types are epoxy molded PNPN Silicon Controlled Rectifiers manufactured in an SOT-23 case, designed for control systems and sensing circuit applications.

MARKING CODE: **CMPS5061: P2A**
CMPS5062: P2B
CMPS5063: P2C
CMPS5064: P2D

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**	**CMPS5061**	**CMPS5062**	**CMPS5063**	**CMPS5064**	**UNITS**
Peak Repetitive Off-State Voltage	V_{DRM}	100	200	300	400	V
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	300	400	V
RMS On-State Current	$I_{T(RMS)}$	0.25				A
Average On-State Current	$I_{T(AV)}$	0.16				A
Power Dissipation	P_D	350				mW
Operating Junction Temperature	T_J	-65 to +125				°C
Storage Temperature	T_{stg}	-65 to +150				°C
Thermal Resistance	Θ_{JA}	286				°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C)		**CMPS5061**		**CMPS5062**		**CMPS5063**		**CMPS5064**		
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**MIN**	**MAX**	**UNITS**
I_{DRM}	V_D=Rated V_{DRM}, R_{GK}=1.0KΩ	-	1.0	-	1.0	-	1.0	-	1.0	μA
I_{RRM}	V_D=Rated V_{DRM}, R_{GK}=1.0KΩ	-	1.0	-	1.0	-	1.0	-	1.0	μA
I_{DRM}	V_D=Rated V_{DRM}, R_{GK}=1.0KΩ, T_C=125°C	-	50	-	50	-	50	-	50	μA
I_{RRM}	V_D=Rated V_{DRM}, R_{GK}=1.0KΩ, T_C=125°C	-	50	-	50	-	50	-	50	μA
V_{TM}	I_T=1.2A	-	1.7	-	1.7	-	1.7	-	1.7	V
I_{GT}	V_D=7.0V, R_L=100Ω	-	200	-	200	-	200	-	200	μA
V_{GT}	V_D=7.0V, R_L=100Ω	-	0.8	-	0.8	-	0.8	-	0.8	V
V_{GD}	V_D= Rated V_{DRM}, R_L=100Ω, T_C=125°C	0.1	-	0.1	-	0.1	-	0.1	-	V
I_H	R_{GK}=1.0KΩ	-	5.0	-	5.0	-	5.0	-	5.0	mA
t_{on}	V_D= Rated V_{DRM}, I_{GT}=1.0mA, R_{GK}=1.0KΩ, di/dt=6.0A/μs		2.8 TYP		2.8 TYP		2.8 TYP		2.8 TYP	μs

R10 (11-February 2011)

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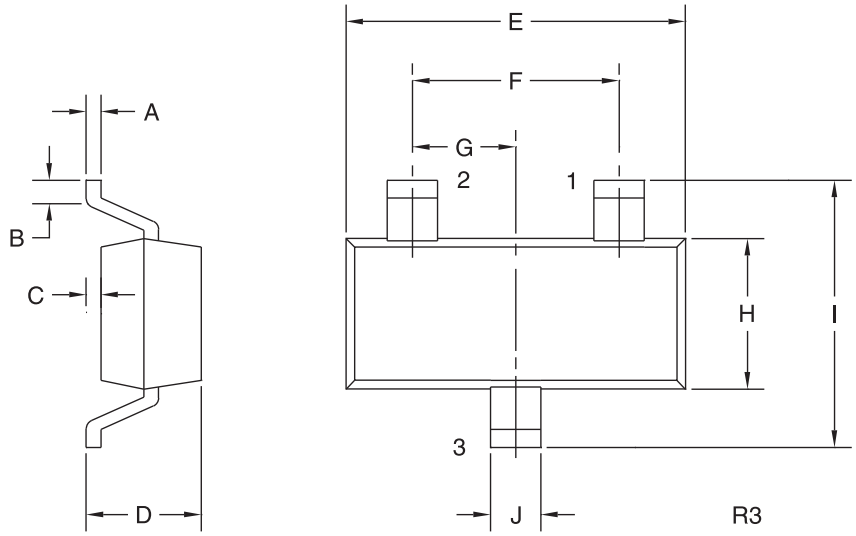
SOT-23 CASE - MECHANICAL OUTLINE



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

MARKING CODES:
CMPS5061: P2A
CMPS5062: P2B
CMPS5063: P2C
CMPS5064: P2D

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)