

CMPS5061
CMPS5062
CMPS5063
CMPS5064

**SURFACE MOUNT
SILICON CONTROLLED RECTIFIER**



SOT-23 CASE



www.centrasemi.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: ($T_A=25^{\circ}\text{C}$)		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		$I_{\text{T(RMS)}}$		0.25			A
Average On-State Current		$I_{\text{T(AV)}}$		0.16			A
Power Dissipation		P_{D}		350			mW
Operating Junction Temperature		T_{J}		-65 to +125			$^{\circ}\text{C}$
Storage Temperature		T_{stg}		-65 to +150			$^{\circ}\text{C}$
Thermal Resistance		Θ_{JA}		286			$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS: (T _A =25°C)		CMPS5061		CMPS5062		CMPS5063		CMPS5064		UNITS
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
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

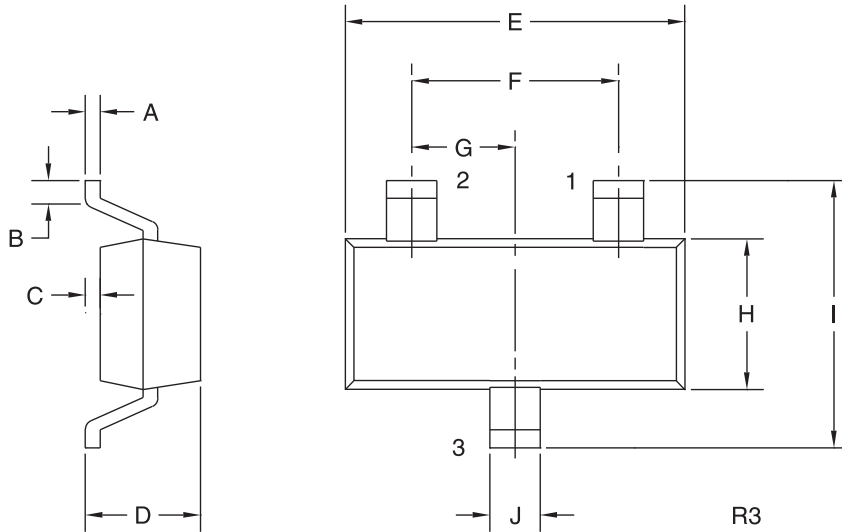
R10 (11-February 2011)

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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				
SYMBOL	INCHES		MILLIMETERS	
	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)

R10 (11-February 2011)

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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