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[Central Semiconductor Corp](#)
[CMPSH-3CG TR](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

CMPSH-3CG
SURFACE MOUNT
DUAL, COMMON CATHODE
SILICON SCHOTTKY DIODES



• Device is **Halogen Free** by design



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3CG is a dual, common cathode Silicon Schottky diode designed for surface mount fast switching applications requiring a low forward voltage drop.

MARKING CODE: DB2G

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage	
Continuous Forward Current	
Peak Repetitive Forward Current	
Peak Forward Surge Current, tp=10ms	
Power Dissipation	
Operating and Storage Junction Temperature	
Thermal Resistance	

SYMBOL

V _{RRM}	30
I _F	100
I _{FRM}	350
I _{FSM}	750
P _D	350
T _J , T _{stg}	-65 to +150
θ _{JA}	357

UNITS

V
mA
mA
mA
mW
°C
°C/W

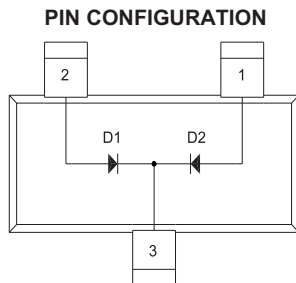
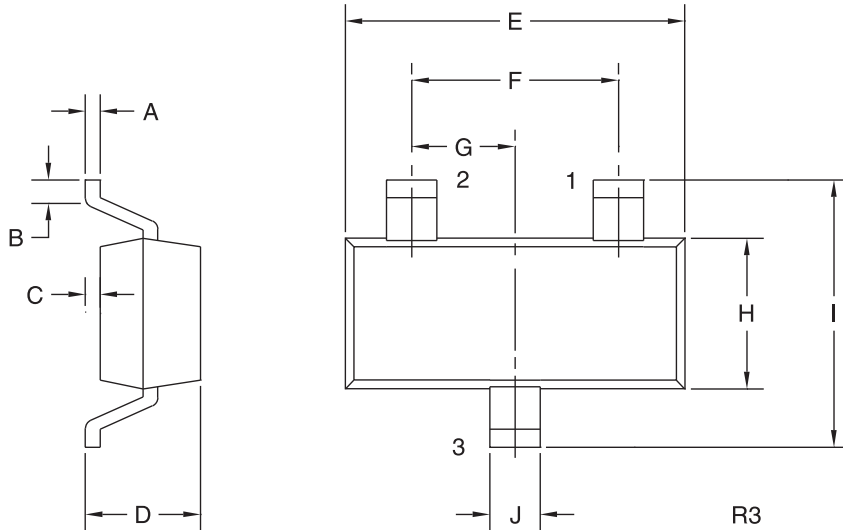
ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =25V		90	500	nA
I _R	V _R =25V, T _A =100°C		25	100	µA
BV _R	I _R =100µA	30			V
V _F	I _F =2.0mA		0.29	0.33	V
V _F	I _F =15mA		0.40	0.45	V
V _F	I _F =100mA		0.74	1.00	V
C _T	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω			5.0	ns



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SURFACE MOUNT
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SOT-23 CASE - MECHANICAL OUTLINE



LEAD CODE:
 1) Anode D2
 2) Anode D1
 3) Cathode D1, D2

MARKING CODE: DB2G

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)

R1 (27-January 2010)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

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