

CMGSH1-3

**SURFACE MOUNT
LOW V_F
SILICON SCHOTTKY DIODE**


www.centralsemi.com
DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMGSH1-3 is a high quality Silicon Schottky Diode designed for applications where ultra small size and operational efficiency are prime requirements. Packaged in the SOD-723 package, this component provides performance characteristics suitable for the most demanding size constrained applications.

**SOD-723 CASE****APPLICATIONS:**

- DC - DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered devices including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop Computers, etc.

MAXIMUM RATINGS: (T_A=25°C)

Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Average Forward Current	I _O	100	mA
Peak Forward Current	I _{FM}	200	mA
Peak Forward Surge Current, t _p =10ms	I _{FSM}	1.0	A
Power Dissipation	P _D	100	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +125	°C
Thermal Resistance	Θ _{JA}	1,000	°C/W

FEATURES:

- V_R=30V
- I_O=100mA
- Very Low Forward Voltage Drop (V_F=0.38V TYP @ 100mA)
- Reverse Current (20µA MAX @ 10V)
- Small SOD-723 package

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

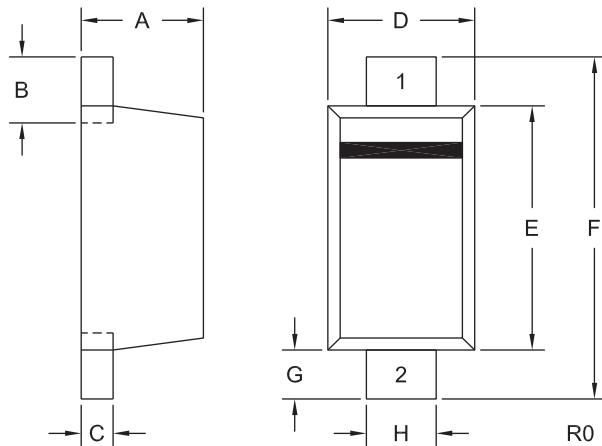
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =10V			20	µA
I _R	V _R =30V			50	µA
BV _R	I _R =100µA	30			V
V _F	I _F =1.0mA		0.18		V
V _F	I _F =5.0mA		0.23		V
V _F	I _F =100mA		0.38	0.50	V
C _T	V _R =0, f=1.0MHz		15		pF

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SOD-723 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: CC

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.017	0.022	0.45	0.55
B	0.007	0.015	0.18	0.38
C	0.003	0.007	0.08	0.18
D	0.021	0.026	0.55	0.65
E	0.037	0.042	0.95	1.05
F	0.053	0.057	1.35	1.45
G	0.006	0.010	0.15	0.25
H	0.009	0.013	0.25	0.32

SOD-723 (REV: R0)

R0 (18-July 2011)