

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMHSH-3 type is a Silicon Schottky diode, epoxy molded in a SOD-123 surface mount package, designed for fast switching applications requiring a low forward voltage drop.
Marking Code is CH3.

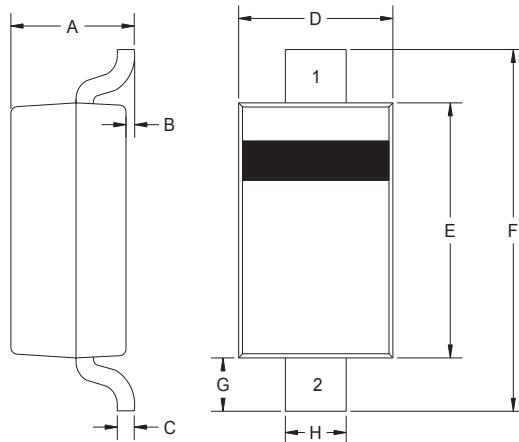
MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

	<u>SYMBOL</u>		<u>UNITS</u>
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Continuous Forward Current	I _F	200	mA
Peak Repetitive Forward Current	I _{FRM}	300	mA
Forward Surge Current, t _p <1.0s	I _{FSM}	600	mA
Power Dissipation	P _D	150	mW
Junction Temperature	T _J	-65 to +125	°C
Storage Temperature	T _{Stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	650	°C/W

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
I _R	V _R =25V			2.0	µA
V _{BR}	I _R =100µA	30			V
V _F	I _F =100µA			240	mV
V _F	I _F =1.0mA			320	mV
V _F	I _F =10mA			400	mV
V _F	I _F =30mA			500	mV
V _F	I _F =100mA			1000	mV
C _T	V _R =1.0V, f=1 MHz		10		pF
t _{rr}	I _F =I _R =10mA, R _L =100Ω, Rec. to 1.0mA		10		ns

MECHANICAL OUTLINE - SOD-123



R3

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.037	0.053	0.95	1.35
B	-	0.005	-	0.12
C	-	0.008	-	0.20
D	0.055	0.071	1.40	1.80
E	0.098	0.112	2.50	2.84
F	0.140	0.154	3.55	3.90
G	0.010	-	0.25	-
H	0.020	0.028	0.50	0.70

SOD-123 (REV:R3)

Lead Code:

- 1) Cathode
- 2) Anode

Marking Code is CH3.

R2 (2-November 2001)