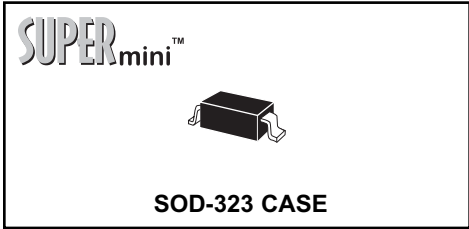




CMDSH-3
**SURFACE MOUNT SILICON
SCHOTTKY DIODE**



Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-3 type is a Silicon Schottky diode, manufactured in a SUPERmini™ surface mount package, designed for fast switching applications requiring a low forward voltage drop.

MARKING CODE: S1

• Device is **Halogen Free** by Design

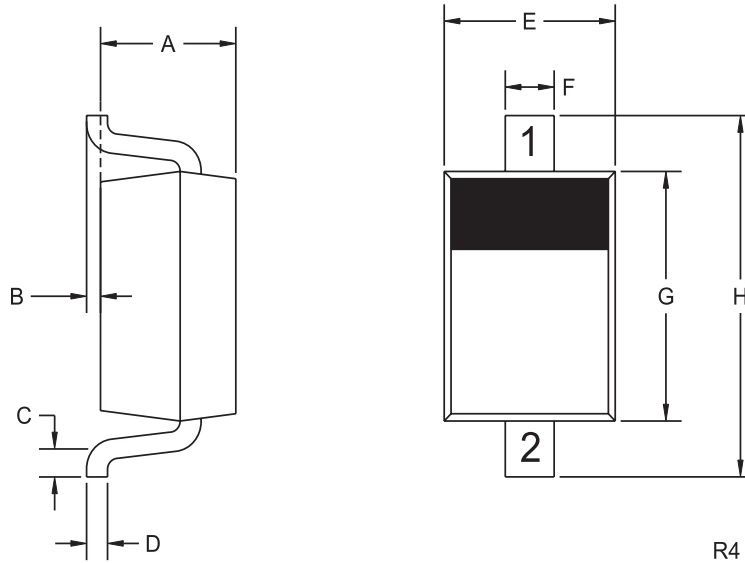
MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	30	V
Average Forward Current	I _O	100	mA
Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P _D	250	mW
Power Dissipation (T _L =25°C)	P _D	833	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	θ _{JA}	500	°C/W
Thermal Resistance	θ _{JL}	150	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =25V			1.0	μA
BV _R	I _F =100μA	30			V
V _F	I _F =2.0mA		0.30		V
V _F	I _F =15mA		0.36		V
V _F	I _F =50mA		0.47	0.55	V
V _F	I _F =100mA		0.58	0.80	V
C _T	V _R =10V, f=1.0 MHz		7.0		pF

SOD-323 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) CATHODE
- 2) ANODE

MARKING CODE: S1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)