



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

**SUPERmini™**



**SOD-323 CASE**

• Device is **Halogen Free** by Design



[www.centrasemi.com](http://www.centrasemi.com)

**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**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Average Forward Current	$I_O$	100	mA
Peak Forward Surge Current, $t_p=10\text{ms}$	$I_{FSM}$	750	mA
Power Dissipation	$P_D$	250	mW
Power Dissipation ( $T_L=25^\circ\text{C}$ )	$P_D$	833	mW
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\theta_{JA}$	500	$^\circ\text{C/W}$
Thermal Resistance	$\theta_{JL}$	150	$^\circ\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$ )

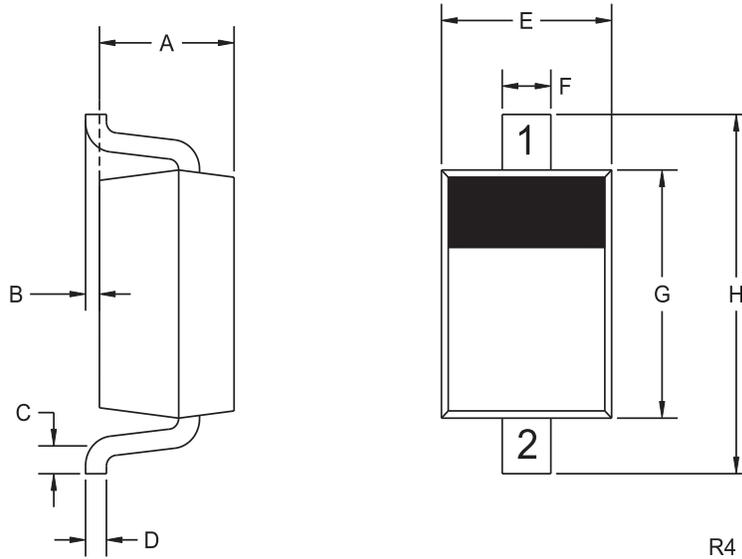
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R=25\text{V}$			1.0	$\mu\text{A}$
$BV_R$	$I_F=100\mu\text{A}$	30			V
$V_F$	$I_F=2.0\text{mA}$		0.30		V
$V_F$	$I_F=15\text{mA}$		0.36		V
$V_F$	$I_F=50\text{mA}$		0.47	0.55	V
$V_F$	$I_F=100\text{mA}$		0.58	0.80	V
$C_J$	$V_R=10\text{V}, f=1.0\text{MHz}$		7.0		pF



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**SOD-323 CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Cathode
- 2) Anode

**MARKING CODE: S1**

SYMBOL	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)

R8 (24-July 2012)

# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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