



**CMDSH2-3**

**SUPER-MINI  
SCHOTTKY DIODE  
HIGH CURRENT - 200mA**

**Central**<sup>TM</sup>  
Semiconductor Corp.

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMDSH2-3 type is a Silicon Schottky Diode, manufactured in a super-mini surface mount package, designed for fast switching applications requiring a low forward voltage drop.

**Marking Code is S2.**

**SUPER**<sup>TM</sup>  
**mini**



**SOD-323 CASE**

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

	<b>SYMBOL</b>		<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Average Forward Current	$I_O$	200	mA
Forward Surge Current, $t_p=10$ ms	$I_{FSM}$	1.0	A
Power Dissipation	$P_D$	250	mW
Operating and Storage			
Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	500	$^\circ\text{C/W}$

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

<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>MIN</b>	<b>TYP</b>	<b>MAX</b>	<b>UNIT</b>
$B_{VR}$	$I_F=100\mu\text{A}$	30			V
$V_F$	$I_F=2.0\text{mA}$		0.26		V
$V_F$	$I_F=15\text{mA}$		0.32		V
$V_F$	$I_F=100\text{mA}$		0.42		V
$V_F$	$I_F=200\text{mA}$		0.49	0.55	V
$I_R$	$V_R=30\text{V}$		0.40	50	$\mu\text{A}$
$C_T$	$V_R=10\text{V}, f=1.0$ MHz		15		pF

All dimensions in inches (mm).

