

CMDSH-3

SUPER-MINI SCHOTTKY DIODE

**SUPERTM
mini**



SOD-323 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-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 S1.

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

Peak Repetitive Reverse Voltage
Average Forward Current
Forward Surge Current, $t_p=10\text{ ms}$
Power Dissipation
Operating and Storage
Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM}

30

UNITS

V

I_O

100

mA

I_{FSM}

750

mA

P_D

250

mW

T_J, T_{stg}

-65 to +150

$^{\circ}\text{C}$

Θ_{JA}

500

$^{\circ}\text{C/W}$

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

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|----------|------------------------------------|-----|------|------|---------------|
| B_{VR} | $I_F=100\mu\text{A}$ | 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 |
| I_R | $V_R=25\text{V}$ | | | 1.0 | μA |
| C_T | $V_R=10\text{V}, f=1.0\text{ MHz}$ | | 7.0 | | pF |

All dimensions in inches (mm).

