

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).

