

## CMDSH-3

### SUPER-MINI SCHOTTKY DIODE

**SUPER<sup>TM</sup>**  
**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.**

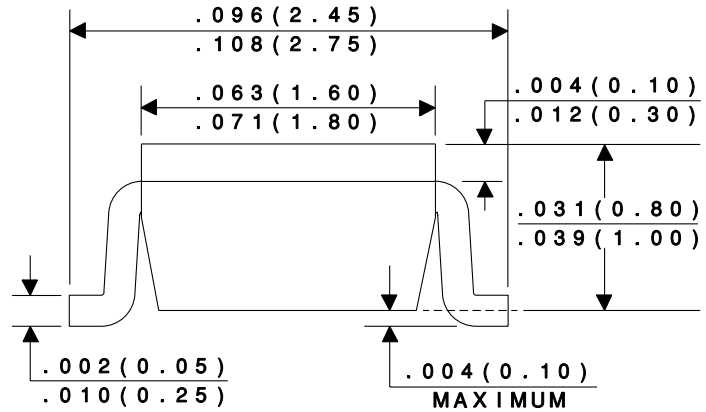
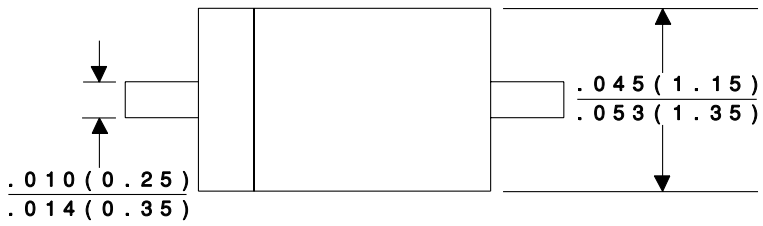
#### MAXIMUM RATINGS: ( $T_A=25^\circ\text{C}$ )

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	V
Average Forward Current	$I_O$	100	mA
Forward Surge Current, $t_p=10$ ms	$I_{FSM}$	750	mA
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: ( $T_A=25^\circ\text{C}$ )

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	$\mu\text{A}$
$C_T$	$V_R=10\text{V}, f=1.0$ MHz		7.0		pF

All dimensions in inches (mm).





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