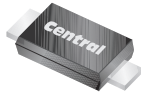


CMIDSH1-3

SURFACE MOUNT
LOW V_F
SILICON SCHOTTKY RECTIFIER
1 AMP, 30 VOLTS

SUPERmini™



SOD-323FL CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMIDSH1-3 is a silicon Schottky rectifier packaged in a space saving flat lead, low profile SOD-323FL case. This SUPERmini™ device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: C13

FEATURES:

- Low package profile
- High surge capability
- Low leakage current

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

Peak Repetitive Reverse Voltage

Average Forward Current ($T_L=110^\circ\text{C}$)

Peak Forward Surge Current, $t_p=8.3\text{ms}$

Operating and Storage Junction Temperature

Thermal Resistance (Note 1)

SYMBOL

V_{RRM}	30
I_O	1.0
I_{FSM}	22
T_J, T_{stg}	-65 to +150
Θ_{JA}	405

UNITS

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

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=30\text{V}$	25	100	μA
V_F	$I_F=0.7\text{A}$	0.41	0.45	V
V_F	$I_F=1.0\text{A}$	0.44	0.52	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	70		pF

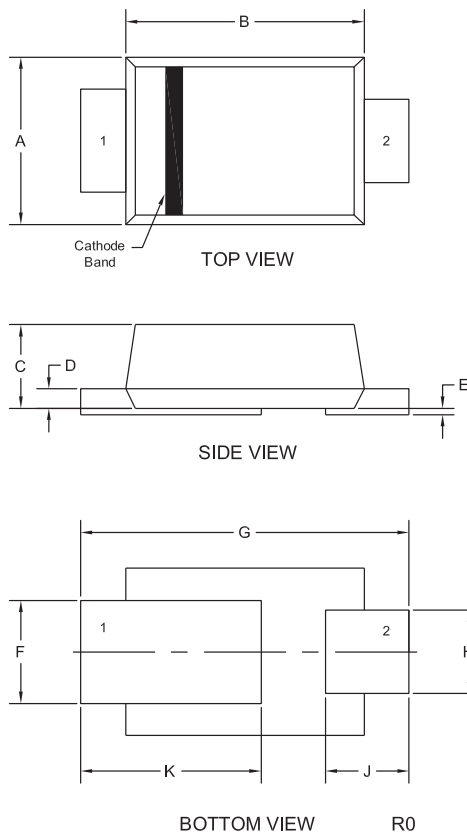
Notes: (1) FR-4 epoxy PCB with minimum copper pad area.

R2 (2-August 2012)

CMDSH1-3
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1 AMP, 30 VOLTS



SOD-323FL CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.047	0.055	1.20	1.40
B	0.068	0.077	1.75	1.95
C	0.021	0.030	0.55	0.75
D	0.004	0.008	0.10	0.20
E	-	0.004	-	0.10
F	0.025	0.038	0.65	0.95
G	0.090	0.107	2.30	2.70
H	0.017	0.030	0.45	0.75
J	0.015	0.032	0.40	0.80
K	0.045	0.061	1.15	1.55
SOD-323FL (REV:R0)				

LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: C13

R2 (2-August 2012)