



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



CMIDSH1-3
 CMIDSH1-4
 CMIDSH1-6

**SURFACE MOUNT SILICON
 LOW V_F SCHOTTKY RECTIFIERS
 1 AMP, 30 THRU 60 VOLT**



SOD-323FL CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMIDSH1-3, CMIDSH1-4, and CMIDSH1-6 are silicon Schottky rectifiers packaged in a space saving flat lead, low profile SOD-323FL case. These devices have been designed for applications requiring a low forward voltage drop.

**MARKING CODES: CMIDSH1-3: C13
 CMIDSH1-4: C14
 CMIDSH1-6: C16**

APPLICATIONS:

- DC-DC converters
- Voltage clamping
- Reverse polarity protection
- General purpose rectification

FEATURES:

- Low package profile
- High reverse voltage 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, $t_p=8.3\text{ms}$
 Power Dissipation
 Operating and Storage Junction Temperature
 Thermal Resistance (Note 1)

SYMBOL	CMIDSH1-3	CMIDSH1-4	CMIDSH1-6	UNITS
V_{RRM}	30	40	60	V
I_O		1.0		A
I_{FSM}		20		A
P_D		308		mW
T_J, T_{stg}		-65 to +150		$^\circ\text{C}$
θ_{JA}		405		$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS
I_R	$V_R=\text{Rated } V_{RRM}$
V_F	$I_F=0.7\text{A}$
V_F	$I_F=1.0\text{A}$
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$

SYMBOL	CMIDSH1-3		CMIDSH1-4		CMIDSH1-6		UNITS
	TYP	MAX	TYP	MAX	TYP	MAX	
I_R	25	100	10	100	20	100	μA
V_F	0.41	0.45	0.43	0.52	0.48	0.58	V
V_F	0.44	0.52	0.46	0.58	0.53	0.68	V
C_J	70	-	51	-	45	-	pF

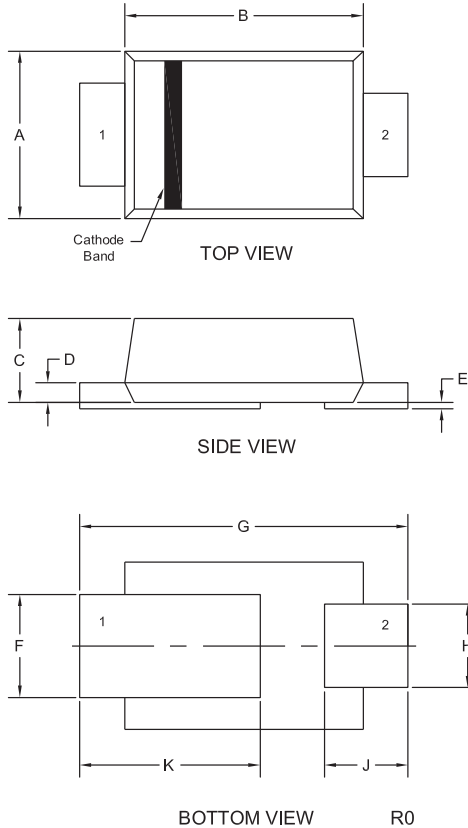
Note 1: FR-4 epoxy PCB with minimum copper pad area.

CMIDSH1-3
 CMIDSH1-4
 CMIDSH1-6



**SURFACE MOUNT SILICON
 LOW V_F SCHOTTKY RECTIFIERS
 1 AMP, 30 THRU 60 VOLT**

SOD-323FL CASE - MECHANICAL OUTLINE



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 CODES: CMIDSH1-3: C13
 CMIDSH1-4: C14
 CMIDSH1-6: C16**

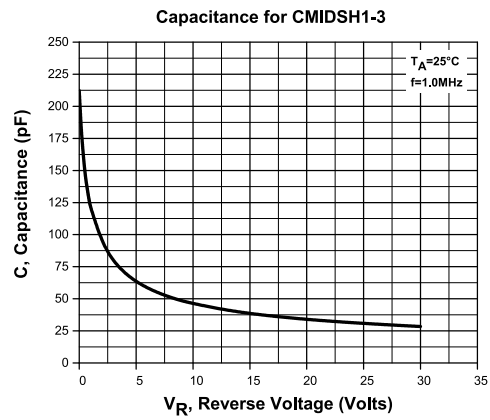
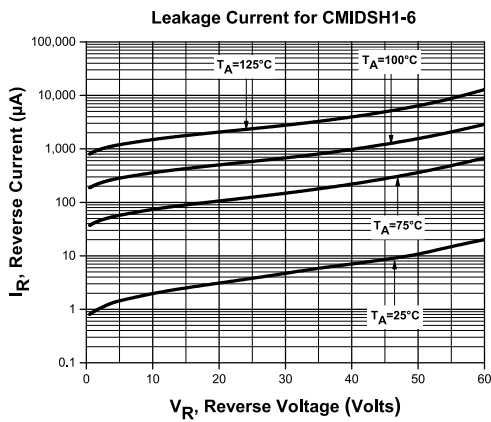
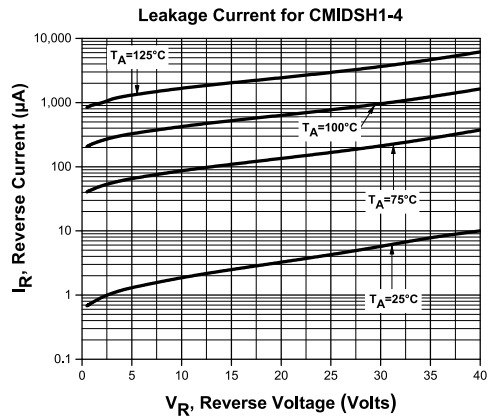
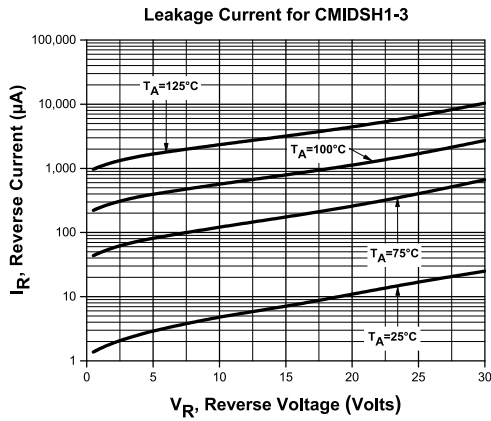
R3 (10-November 2015)

CMIDSH1-3
 CMIDSH1-4
 CMIDSH1-6



SURFACE MOUNT SILICON
 LOW V_F SCHOTTKY RECTIFIERS
 1 AMP, 30 THRU 60 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



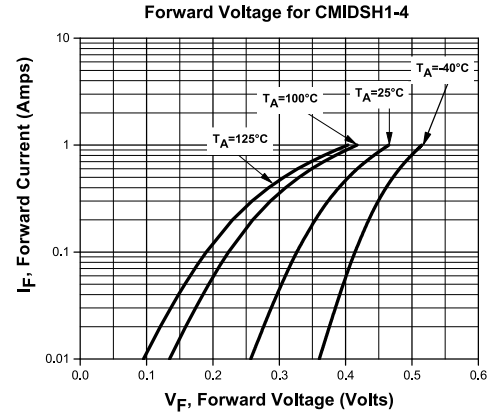
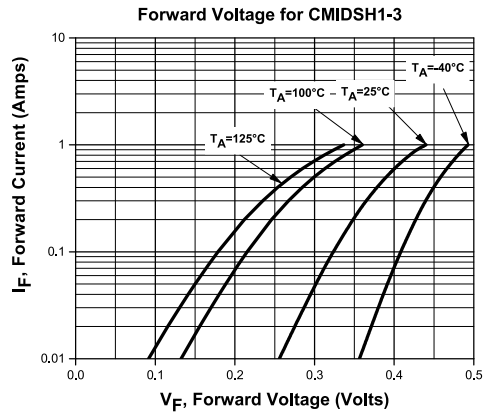
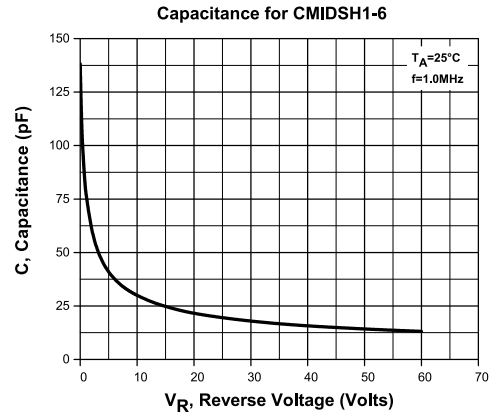
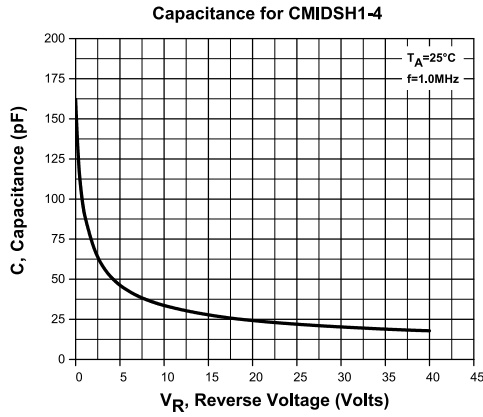
R3 (10-November 2015)

CMIDSH1-3
 CMIDSH1-4
 CMIDSH1-6



SURFACE MOUNT SILICON
 LOW V_F SCHOTTKY RECTIFIERS
 1 AMP, 30 THRU 60 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



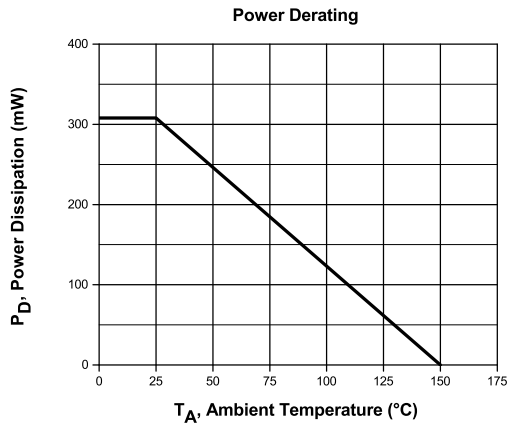
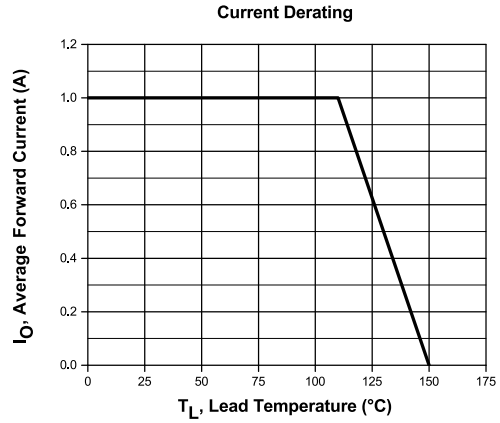
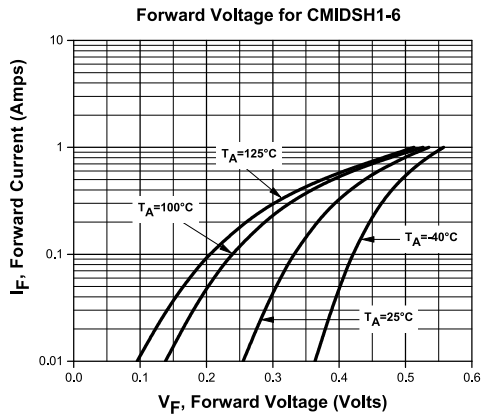
R3 (10-November 2015)

CMIDSH1-3
 CMIDSH1-4
 CMIDSH1-6



SURFACE MOUNT SILICON
 LOW V_F SCHOTTKY RECTIFIERS
 1 AMP, 30 THRU 60 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



R3 (10-November 2015)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms