SURFACE MOUNT SILICON SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-3 is a silicon Schottky diode, manufactured in an SOD-323 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

MARKING CODE: S1



SOD-323 CASE

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Average Forward Current	IO	100	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
Power Dissipation	P_{D}	250	mW
Power Dissipation (T _L =25°C)	P_{D}	833	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	500	°C/W
Thermal Resistance	$\Theta_{\sf JL}$	150	°C/W

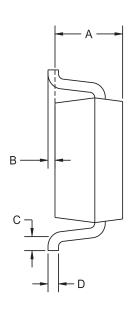
ELECTRICAL CHARACTERISTICS: (T _A =25°C)

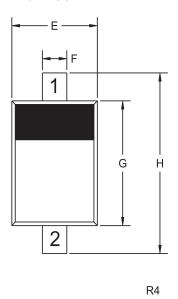
SYMBOL I _R	TEST CONDITIONS VR=25V	MIN	TYP	MAX 1.0	UNITS μΑ
BV_R	I _F =100μA	30			V
V_{F}	I _F =2.0mA		0.29		V
V_{F}	I _F =15mA		0.37		V
VF	I _F =50mA		0.44	0.55	V
V_{F}	I _F =100mA		0.51	0.80	V
$C_{,J}$	V _R =1.0V, f=1.0MHz		7.0		pF

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SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: S1

DIMENSIONS				
	INCHES		MILLIMETER	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.031	0.039	0.80	1.00
В	0.000	0.004	0.00	0.10
С	0.008	ı	0.20	-
D	0.004	0.007	0.11	0.19
Е	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
Н	0.094	0.102	2.40	2.60

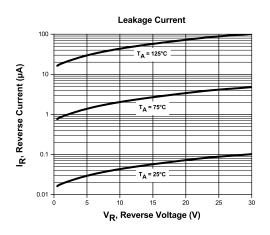
SOD-323 (REV: R4)

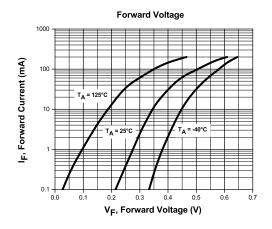
R9 (11-February 2016)

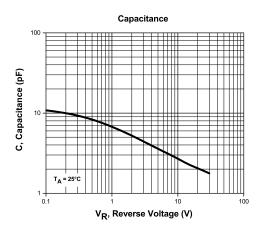
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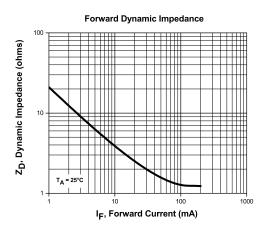


TYPICAL ELECTRICAL CHARACTERISTICS





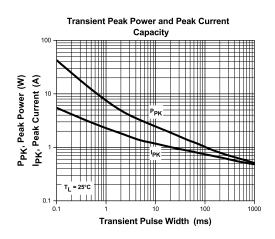


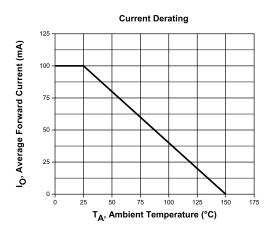


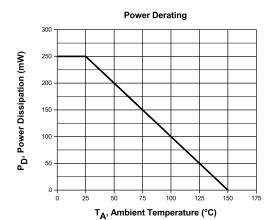
SURFACE MOUNT SILICON SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS







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 guick 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

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Worldwide Distributors:

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Product End of Life Notification

PDN ID:	PDN01227
Notification Date:	4/28/22
Last Buy Date:	
Last Shipment Date	4/28/23

Summary: The CMDSH-3G Schottky diode is discontinued and now classified as Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Portfolio Management. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement	
CMDSH-3G BK	CMDSH-3 BK	
CMDSH-3G TR	CMDSH-3 TR	

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002