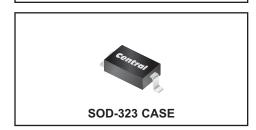


SURFACE MOUNT SILICON SCHOTTKY DIODE



Central Semiconductor Corp.

www.centralsemi.com

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

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)						
		SYMBOL			UNITS	
Peak Repetitive Reverse Voltage		VRRM	3	0	V	
Average Forward Current		IO	1(00	mA	
Peak Forward Surge Current, tp=10ms		IFSM	7	50	mA	
Power Dissipation		PD	250		mW	
Power Dissipation (T _L =25°C)		PD	833		mW	
Operating and Storage Junction Temperature		т _Ј , т _{stg}	-65 to +150		°C	
Thermal Resistance		ΘJΑ	500		°C/W	
Thermal Resistance		Θ_{JL}	150		°C/W	
ELECTRICAL CHARACTERISTICS: (T _A =25°C)						
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS	
I _R	V _R =25V			1.0	μΑ	
ΒV _R	I _F =100μA	30			V	
VF	I _F =2.0mA		0.29		V	
VF	I _F =15mA		0.37		V	
VF	I _F =50mA		0.44	0.55	V	
VF	I _F =100mA		0.51	0.80	V	
CJ	V _R =1.0V, f=1.0MHz		7.0		pF	

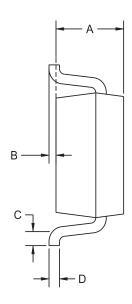
R9 (11-February 2016)

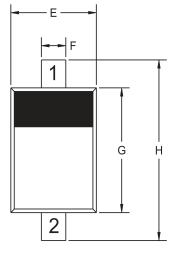


CMDSH-3

SURFACE MOUNT SILICON SCHOTTKY DIODE

SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

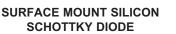
MARKING CODE: S1

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A	0.031	0.039	0.80	1.00		
В	0.000	0.004	0.00	0.10		
С	0.008	-	0.20	-		
D	0.004	0.007	0.11	0.19		
E	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)						

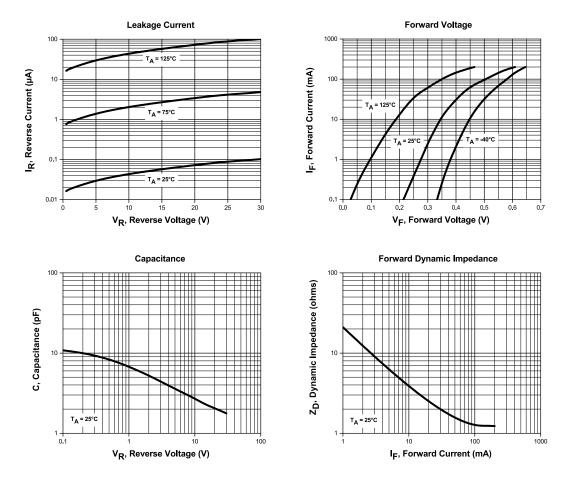
R9 (11-February 2016)

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TYPICAL ELECTRICAL CHARACTERISTICS

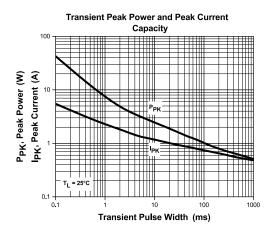
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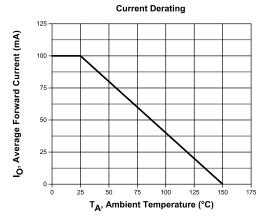


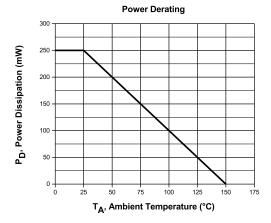
SURFACE MOUNT SILICON SCHOTTKY DIODE





TYPICAL ELECTRICAL CHARACTERISTICS





R9 (11-February 2016)

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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

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

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

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).
- 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

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Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors: www.centralsemi.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: <u>www.centralsemi.com/terms</u>





Product End of Life Notification

PDN ID:	PDN01227
Notification Date:	4/28/22
Last Buy Date:	10/28/22
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.