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

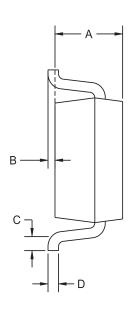
ELECTRICAL CHA	RACTERISTICS:	$(T_{\Lambda}=25^{\circ}C)$
		(: A = 0 0)

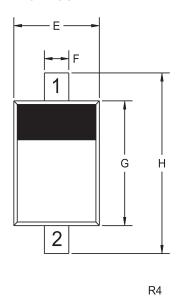
SYMBOL IR	TEST CONDITIONS VR=25V	MIN	TYP	MAX 1.0	UNITS μΑ
BV_R	I _F =100μA	30			V
V_{F}	I _F =2.0mA		0.29		V
V_{F}	I _F =15mA		0.37		V
V_{F}	I _F =50mA		0.44	0.55	V
V_{F}	I _F =100mA		0.51	0.80	V
C _{.1}	V _R =1.0V, f=1.0MHz		7.0		pF

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SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: S1

DIMENSIONS					
	INCHES		MILLIMETERS		
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	-	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	

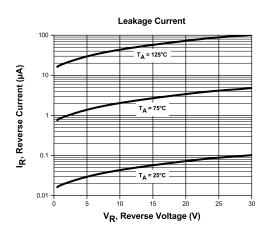
SOD-323 (REV: R4)

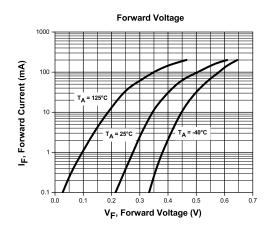
R9 (11-February 2016)

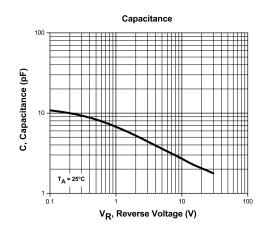
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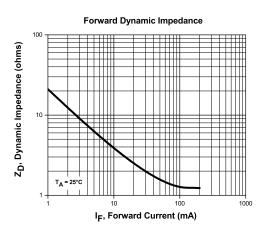


TYPICAL ELECTRICAL CHARACTERISTICS





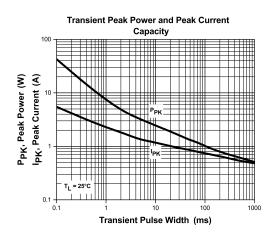


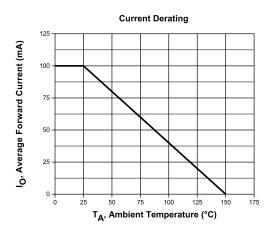


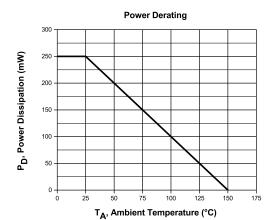
SURFACE MOUNT SILICON SCHOTTKY DIODE



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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