SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH05-4 is a 40 Volt Schottky diode packaged in a space saving surface mount SOD-323 case. This device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: C55



SOD-323 CASE

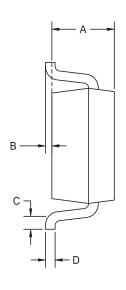
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	I _{FRM}	3.5	Α
Peak Forward Surge Current, tp=8.0ms	I _{FSM}	10	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

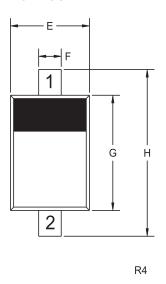
ELECTRICAL	. CHARACTERISTICS: (1 _A =25°C unl	less otherwise	noted)		
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V _R =10V			30	μΑ
I_{R}	V _R =30V		60	100	μΑ
I_{R}	V_R =30V, T_A =85°C		2.5		mA
I_{R}	V _R =30V, T _A =100°C		6.0		mA
BV_R	I _R =500μA	40			V
V_{F}	I _F =100μA			0.13	V
VF	I _F =1.0mA			0.21	V
VF	I _F =10mA			0.27	V
V_{F}	I _F =100mA			0.35	V
VF	I _F =500mA			0.47	V
CJ	V _R =1.0V, f=1.0MHz			50	pF

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SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode

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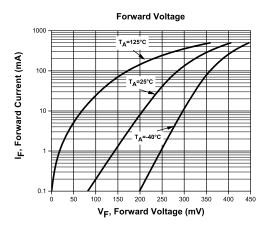
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.031	0.039	0.80	1.00			
В	0.000	0.004	0.00	0.10			
С	0.008	-	0.20	-			
D	0.004	0.007	0.11	0.19			
E	0.045	0.053	1.15	1.35			
F	-	0.014	-	0.35			
G	0.063	0.071	1.60	1.80			
Н	0.094	0.102	2.40	2.60			

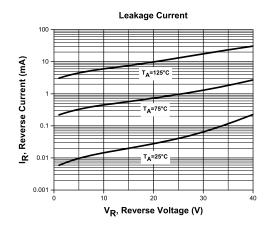
SOD-323 (REV: R4)

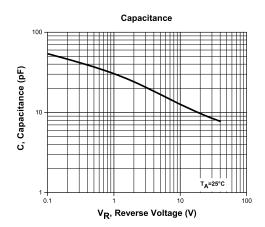
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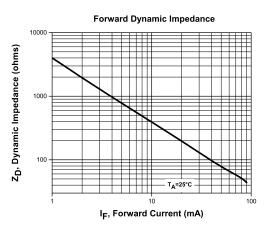


TYPICAL ELECTRICAL CHARACTERISTICS





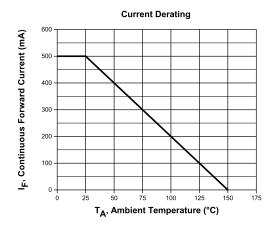


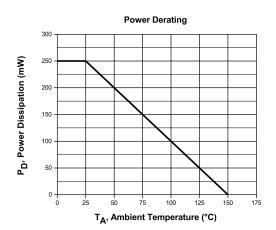






TYPICAL ELECTRICAL CHARACTERISTICS





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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