CMDSH05-4

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

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Continuous Forward Current	١ _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	IFRM	3.5	А
Peak Forward Surge Current, tp=8.0ms	IFSM	10	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	т _Ј , Т _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
IR	V _R =10V			30	μA
I _R	V _R =30V		60	100	μA
I _R	V _R =30V, T _A =85°C		2.5		mA
I _R	V _R =30V, T _A =100°C		6.0		mA
BVR	I _R =500μΑ	40			V
VF	I _F =100μΑ			0.13	V
VF	I _F =1.0mA			0.21	V
VF	I _F =10mA			0.27	V
VF	I _F =100mA			0.35	V
VF	I _F =500mA			0.47	V
СЈ	V _R =1.0V, f=1.0MHz			50	pF

R4 (8-January 2018)

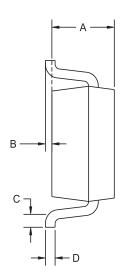


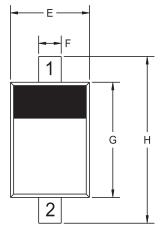


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SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: C55

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	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)						

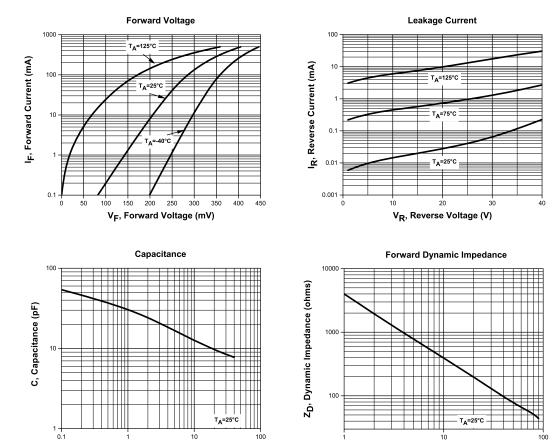
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100

10

V_R, Reverse Voltage (V)

TYPICAL ELECTRICAL CHARACTERISTICS

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100

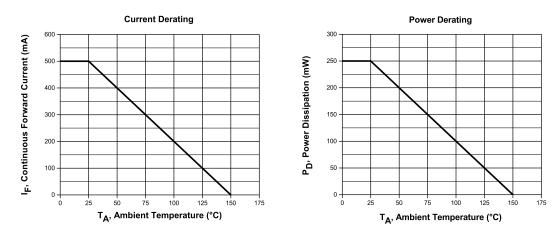
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IF, Forward Current (mA)





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TYPICAL ELECTRICAL CHARACTERISTICS

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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).
- 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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