SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH05-45 is a 45 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: 45C



SOD-323 CASE

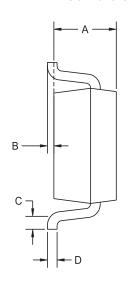
MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	45	V
Continuous Forward Current	I _F	500	mA
Peak Repetitive Forward Current, tp≤1.0ms	^I FRM	3.5	Α
Peak Forward Surge Current, tp=8.0ms	^I FSM	10	Α
Power Dissipation	P_{D}	250	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	500	°C/W

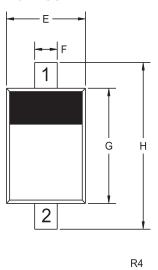
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ELECTRICAL CHARACTERISTICS : (T _A =25°C unless otherwise noted)								
SYMBOL I _R	TEST CONDITIONS V _R =30V	MIN	TYP 60	MAX 100	UNITS μΑ			
I_{R}	V_R =30V, T_A =85°C		2.5		mA			
I_{R}	V_R =30V, T_A =100°C		6.0		mA			
BV_R	I _R =500μA	45			V			
V_{F}	I _F =100μA			0.13	V			
V_{F}	I _F =1.0mA			0.21	V			
V_{F}	I _F =10mA			0.27	V			
V_{F}	I _F =100mA			0.35	V			
V_{F}	I _F =500mA			0.47	V			
C_{J}	V_R =1.0 V , f=1.0 M Hz			50	pF			

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SOD-323 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: 45C

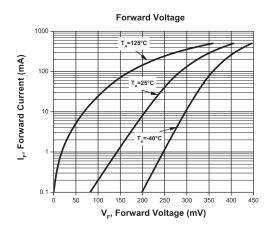
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.031	0.039	0.80	1.00			
В	0.000	0.004	0.00	0.10			
С	0.008	-	0.20	-			
D	0.004	0.007	0.11	0.19			
E	0.045	0.053	1.15	1.35			
F	-	0.014	-	0.35			
G	0.063	0.071	1.60	1.80			
Н	0.094	0.102	2.40	2.60			

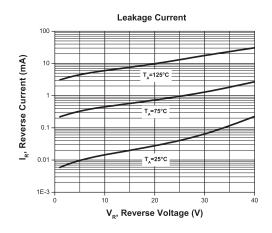
SOD-323 (REV: R4)

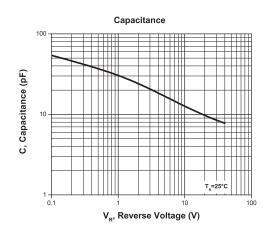
SURFACE MOUNT SILICON LOW V_F SCHOTTKY DIODE

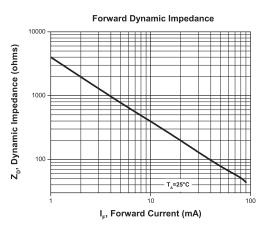


TYPICAL ELECTRICAL CHARACTERISTICS





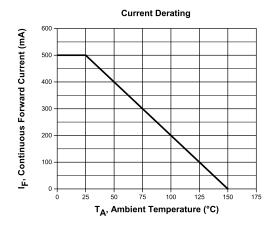


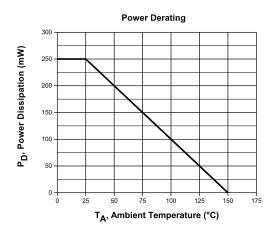






TYPICAL ELECTRICAL CHARACTERISTICS





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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