

#### SURFACE MOUNT SILICON SCHOTTKY DIODE

SOD-523 CASE



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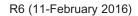
# DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOSH-3 is a silicon Schottky diode, epoxy molded in an SOD-523 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

## MARKING CODE: 53

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	30	V
Continuous Forward Current	١ <sub>F</sub>	100	mA
Peak Repetitive Forward Current	IFRM	350	mA
Peak Forward Surge Current, tp=10ms	IFSM	750	mA
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	TJ, T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	$\Theta_{JA}$	500	°C/W
	uploss otherwise pe	tod)	

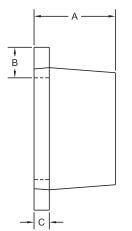
ELECTRICAL SYMBOL	. CHARACTERISTICS: (T <sub>A</sub> =25°C unl TEST CONDITIONS	ess otherwise MIN	e noted) <b>TYP</b>	MAX	UNITS
IR	V <sub>R</sub> =25V		90	500	nA
I <sub>R</sub>	V <sub>R</sub> =25V, T <sub>A</sub> =100°C		25	100	μΑ
ΒV <sub>R</sub>	I <sub>R</sub> =100μΑ	30			V
VF	I <sub>F</sub> =2.0mA		0.29	0.33	V
VF	I <sub>F</sub> =15mA		0.37	0.45	V
VF	I <sub>F</sub> =100mA		0.51	1.00	V
CJ	V <sub>R</sub> =1.0V, f=1.0MHz		7.0		pF
t <sub>rr</sub>	$I_F = I_R = 10 \text{mA}$ , $I_{rr} = 1.0 \text{mA}$ , $R_L = 100 \Omega$			5.0	ns



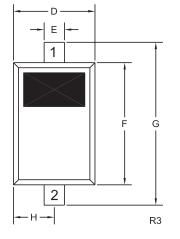


CMOSH-3

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## SOD-523 CASE - MECHANICAL OUTLINE



LEAD CODE:	
1) Cathode	
2) Anode	

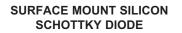
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DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A	0.020	0.031	0.50	0.80		
В	0.008	0.016	0.20	0.40		
С	0.002	0.008	0.05	0.20		
D	0.028	0.035	0.70	0.90		
E	0.008	0.014	0.20	0.35		
F	0.039	0.055	1.00	1.40		
G	0.055	0.071	1.40	1.80		
Н	0.016		0.40			
SOD-523 (REV: R3)						

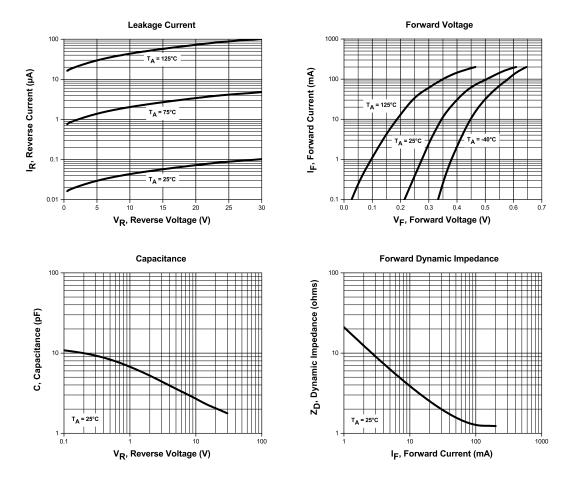
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## TYPICAL ELECTRICAL CHARACTERISTICS

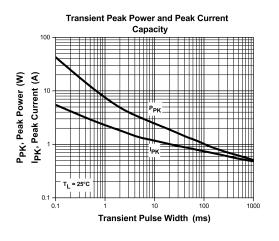
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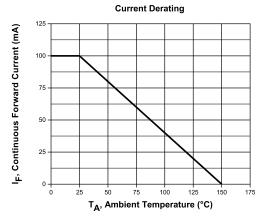


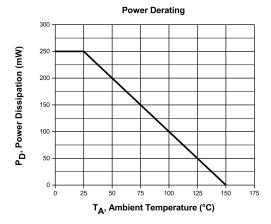
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## TYPICAL ELECTRICAL CHARACTERISTICS





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- Application notes
- Application and design sample kits
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## CONTACT US

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