ENHANCED SPECIFICATION SURFACE MOUNT SILICON **SCHOTTKY DIODE**



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOSH-4E is an enhanced version of the CMOSH-3 silicon Schottky diode in an SOD-523 surface mount package.

MARKING CODE: 4E

ENHANCED SPECIFICATIONS:

- ♦ IF from 100 mA MAX to 200 mA MAX
- \bullet BVR from 30V MIN to 40V MIN
- ♦ V_F from 1.0 V MAX to 0.8 V MAX

	central	
ENHANCED SPECIFICATION	SOD-523 CASE	

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
♦ Peak Repetitive Reverse Voltage	V_{RRM}	40	V
◆ Continuous Forward Current	ΙF	200	mA
Peak Repetitive Forward Current	IFRM	350	mA
Peak Forward Surge Current, tp=10ms	I _{FSM}	750	mA
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

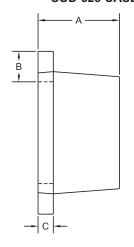
L CHARACTERISTICS: (TA=25°C unle	ss otherwise	e noted)		
TEST CONDITIONS	MIN	TYP	MAX	UNITS
V _R =25V		90	500	nA
V _R =25V, T _A =100°C		25	100	μΑ
I _R =100μA	40	50		V
I _F =2.0mA		0.29	0.33	V
I _F =15mA		0.37	0.42	V
I _F =100mA		0.51	0.80	V
I _F =200mA		0.65	1.0	V
V _R =1.0V, f=1.0MHz		7.0		pF
$I_F = I_R = 10$ mA, $I_{rr} = 1.0$ mA, $R_L = 100$ Ω			5.0	ns
	TEST CONDITIONS V _R =25V V _R =25V, T _A =100°C I _R =100μA I _F =2.0mA I _F =15mA I _F =100mA I _F =200mA V _R =1.0V, f=1.0MHz	TEST CONDITIONS V _R =25V V _R =25V, T _A =100°C I _R =100μA I _F =2.0mA I _F =15mA I _F =100mA I _F =200mA V _R =1.0V, f=1.0MHz	V _R =25V 90 V _R =25V, T _A =100°C 25 I _R =100μA 40 50 I _F =2.0mA 0.29 I _F =15mA 0.37 I _F =100mA 0.51 I _F =200mA 0.65 V _R =1.0V, f=1.0MHz 7.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

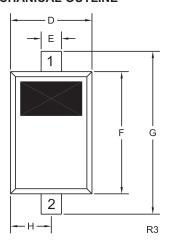
[◆] Enhanced specification.◆ Additional Enhanced specification.

ENHANCED SPECIFICATION SURFACE MOUNT SILICON **SCHOTTKY DIODE**



SOD-523 CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Cathode 2) Anode

MARKING CODE: 4E

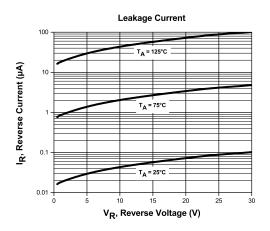
DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.020	0.031	0.50	0.80		
В	0.008	0.016	0.20	0.40		
С	0.002	0.008	0.05	0.20		
D	0.028	0.035	0.70	0.90		
E	0.008	0.014	0.20	0.35		
F	0.039	0.055	1.00	1.40		
G	0.055	0.071	1.40	1.80		
Н	0.016		0.4	40		

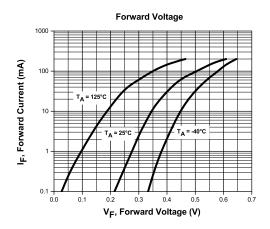
SOD-523 (REV: R3)

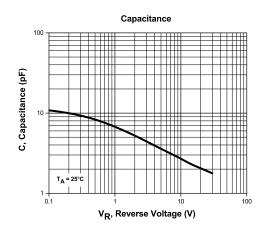
ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE

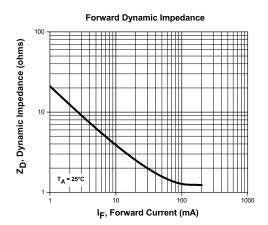


TYPICAL ELECTRICAL CHARACTERISTICS





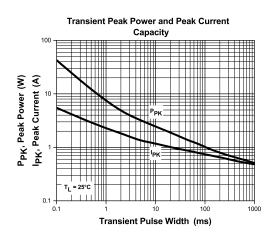


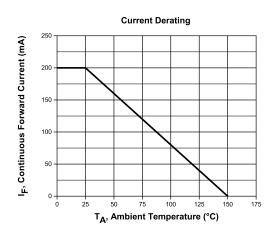


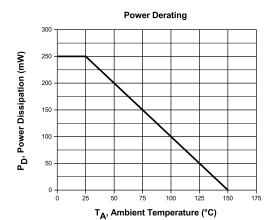




TYPICAL ELECTRICAL CHARACTERISTICS







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 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
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives:

www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's LIMITATIONS AND DAMAGES DISCLAIMER, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

(000)www.centralsemi.com