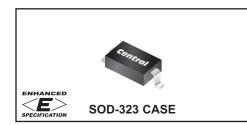


ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH-4E is an enhanced version of the CMDSH-3 silicon Schottky diode in an SOD-323 surface mount package.

ENHANCED SPECIFICATIONS:

- ◆ I_O from 100mA MAX to 200mA MAX
- \blacklozenge $\,{\rm BV}_{\rm R}$ from 30V MIN to 40V MIN
- \blacklozenge V_F from 1.0V MAX to 0.8V MAX

MARKING CODE: S1E

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Average Forward Current	ЧO	200	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	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
I _R	V _R =25V		90	500	nA
I _R	V _R =25V, T _A =100°C		25	100	μA
♦ BV _R	Ι _R =100μΑ	40	50		V
V _F	I _F =2.0mA		0.29	0.33	V
♦ V _F	I _F =15mA		0.37	0.42	V
♦ V _F	I _F =100mA		0.51	0.80	V
** V _F	I _F =200mA		0.65	1.0	V
СJ	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω			5.0	ns

Enhanced specification.

♦♦ Additional Enhanced specification.

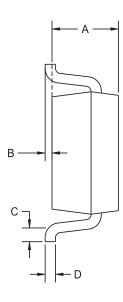
R3 (11-February 2016)

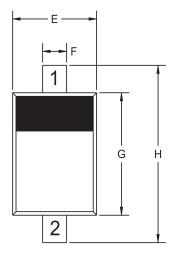




ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE

SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: S1E

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			
H	0.094	0.102	2.40	2.60			
SOD 222 (DEV/: D4)							

SOD-323 (REV: R4)

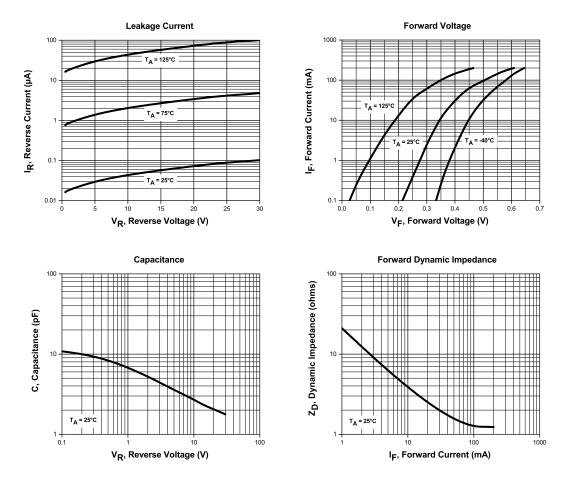
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CMDSH-4E

ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS

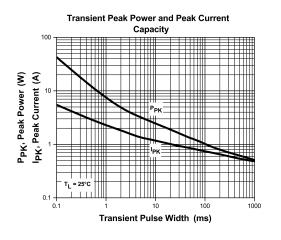
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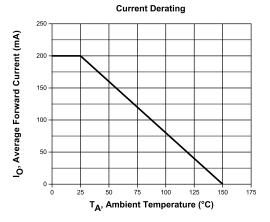


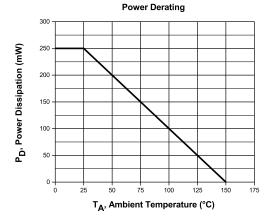
CMDSH-4E

ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODE



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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