CMSSH-3E CMSSH-3CE CMSSH-3AE CMSSH-3SE

ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODES



CMSSH-3E: SINGLE CMSSH-3AE: DUAL, COMMON ANODE CMSSH-3CE: DUAL, COMMON CATHODE MARKING CODE: 3CE CMSSH-3SE: DUAL, IN SERIES

cen Semiconductor Corp

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSSH-3E series devices are enhanced versions of the CMSSH-3 series of silicon Schottky diodes in an SOT-323 surface mount package.

FEATURED ENHANCED SPECIFICATIONS:

- ♦ I_F from 100mA MAX to 200mA MAX
- ♦ BV_R from 30V MIN to 40V MIN
- V_F from 1.0V MAX to 0.8V MAX

MARKING CODE: 31E MARKING CODE: 3AE **MARKING CODE: 3SE**

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
 Continuous Forward Current 	١ _F	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	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A =25°C unless otherwise noted) TEST CONDITIONS *ί*λ Λ Υ SVMBOL MIN TVD

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IR	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
VF	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}	$I_F = I_R = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_L = 100 \Omega$			5.0	ns

• Enhanced specification.

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♦ Additional Enhanced specification.

R3 (16-February 2016)

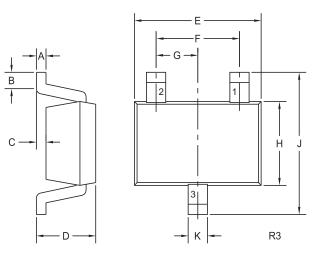
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CMSSH-3E CMSSH-3CE CMSSH-3AE CMSSH-3SE

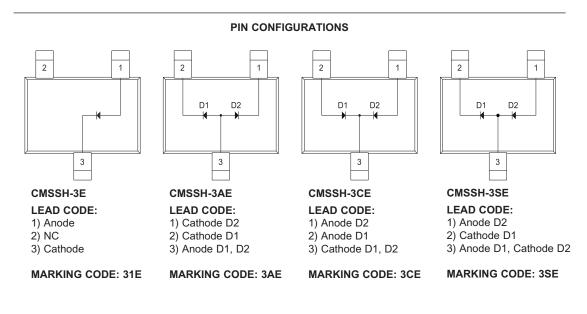
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SOT-323 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
А	0.002	800.0	0.05	0.20			
В	0.004	-	0.10	-			
С	-	0.004	-	0.10			
D	0.031	0.043	0.80	1.10			
E	0.071	0.087	1.80	2.20			
F	0.051		1.30				
G	0.026		0.65				
Н	0.045	0.053	1.15	1.35			
J	0.079	0.087	2.00	2.20			
K	0.008	0.016	0.20	0.40			
SOT-323 (REV: R3)							

SOT-323 (REV: R3)



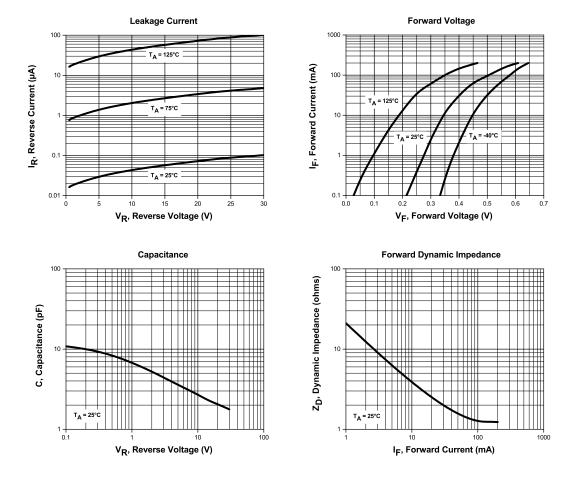
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TYPICAL ELECTRICAL CHARACTERISTICS

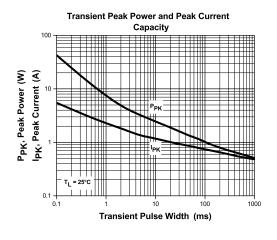
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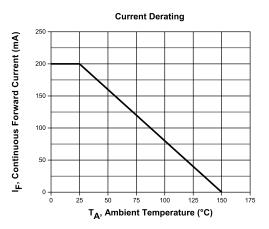
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Power Derating 300 P_D, Power Dissipation (mW) 250 200 -150 -100 50 -0+ 25 50 75 100 125 150 175 T_A, Ambient Temperature (°C)

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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

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

ss your design challenges.

· Custom product packing

- Special wafer diffusions
- 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).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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