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

ENHANCED SPECIFICATION SURFACE MOUNT





CMSSH-3E: SINGLE

CMSSH-3AE: DUAL, COMMON ANODE CMSSH-3CE: DUAL, COMMON CATHODE MARKING CODE: 3CE

CMSSH-3SE: DUAL, IN SERIES

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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSSH-3E Series types 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 100 mA max to 200 mA 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	lF	200	mA
Peak Repetitive Forward Current	^I FRM	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	ΘιΔ	500	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (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	μΑ
♦ BV _R	I _R =100μA	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		0.61	0.80	V
♦ ♦ V _F	I _F =200mA		0.65	1.0	V
C _T	V _R =1.0V, f=1.0MHz		7.0		pF
t _{rr}	$I_F=I_R=10$ mA, $I_{rr}=1.0$ mA, $R_L=100\Omega$		5.0	ns	

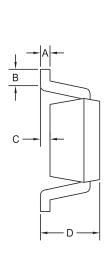
- ♦ Enhanced specification
- ♦ ♦ Additional Enhanced specification

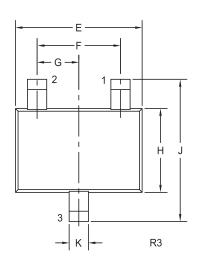
CMSSH-3E CMSSH-3CE CMSSH-3AE CMSSH-3SE

ENHANCED SPECIFICATION SURFACE MOUNT SILICON SCHOTTKY DIODES



SOT-323 CASE - MECHANICAL OUTLINE

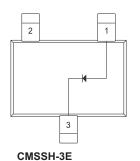




DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
Α	0.002	0.008	0.05	0.20		
В	0.004	-	0.10	-		
С	-	0.004	-	0.10		
D	0.031	0.043	0.80	1.10		
E	0.071	0.087	1.80	2.20		
F	0.051		1.30			
G	0.026		0.65			
Н	0.045	0.053	1.15	1.35		
J	0.079	0.087	2.00	2.20		
K	0.008	0.016	0.20	0.40		

SOT-323 (REV: R3)

PIN CONFIGURATIONS



LEAD CODE:

- 1) Anode 2) NC
- 3) Cathode

MARKING CODE: 31E

2 1 D1 D2

CMSSH-3AE

LEAD CODE:

- 1) Cathode D2
- 2) Cathode D1
- 3) Anode D1, D2

MARKING CODE: 3AE

2 1 D1 D2 3

CMSSH-3CE

LEAD CODE:

- 1) Anode D2
- 2) Anode D1
- 3) Cathode D1, D2

MARKING CODE: 3CE

CMSSH-3SE

3

D1

D2

- **LEAD CODE:**
- 1) Anode D2
- 2) Cathode D1
- 3) Anode D1, Cathode D2

MARKING CODE: 3SE

R2 (9-February 2010)