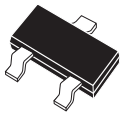
CMPSH-3E
CMPSH-3AE
CMPSH-3CE
CMPSH-3SE

ENHANCED SPECIFICATION
SCHOTTKY DIODES

ENHANCED E SPECIFICATION



SOT-23 CASE

Central™ Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3E Series types are Enhanced Versions of the CMPSH-3 Series of Silicon Schottky Diodes in an SOT-23 Surface Mount Package.

Enhanced Specifications:

- ♦ I_F from 100mA max to 200mA max.
- ♦ B_{VR} from 30V min to 40V min.
- ♦ V_F from 1.0V max to 0.8V max.

CMPSH-3E	SINGLE	**MARKING CODE: D95E**
CMPSH-3AE	DUAL, COMMON ANODE	**MARKING CODE: DB1E**
CMPSH-3CE	DUAL, COMMON CATHODE	**MARKING CODE: DB2E**
CMPSH-3SE	DUAL, IN SERIES	**MARKING CODE: DA5E**

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
♦ **Peak Repetitive Reverse Voltage**	**V_{RRM}**	**40**	**V**
♦ **Continuous Forward Current**	**I_F**	**200**	**mA**
Peak Repetitive Forward Voltage	I_{FRM}	350	mA
Forward Surge Current, tp=10ms	I_{FSM}	750	mA
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
♦	**B_{VR}**	**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**
	I_R	V_R=25V		90	500	nA
	I_R	V_R=25V, T_A=100°C		25	100	μA
	C_T	V_R=1.0V, f=1 MHz		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.

R0 (06-May 2002)

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Semiconductor Corp.

CMPSH-3E
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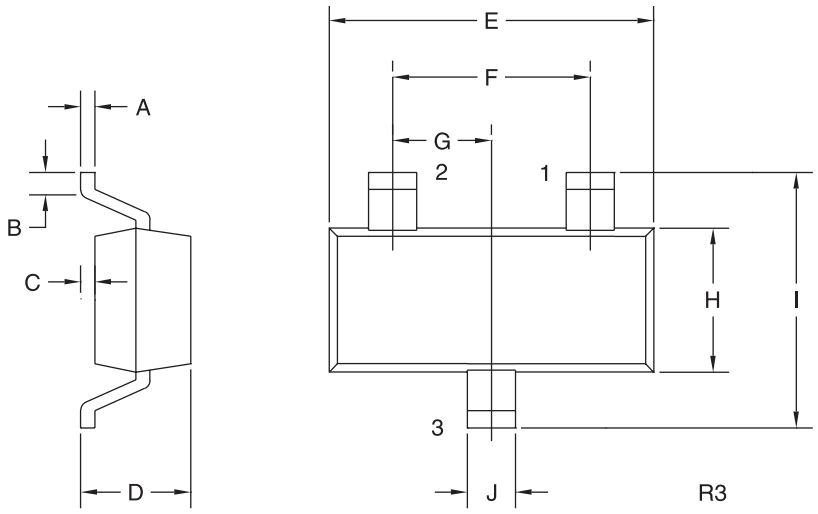
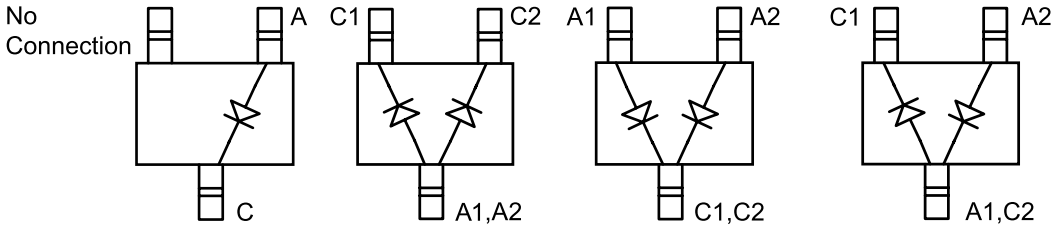
ENHANCED SPECIFICATION
SCHOTTKY DIODES

SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.003	0.007	0.08	0.18
B	0.006	-	0.15	-
C	-	0.005	-	0.13
D	0.035	0.043	0.89	1.09
E	0.110	0.120	2.80	3.05
F	0.075		1.90	
G	0.037		0.95	
H	0.047	0.055	1.19	1.40
I	0.083	0.098	2.10	2.49
J	0.014	0.020	0.35	0.50

SOT-23 (REV: R3)



R0 (06-May 2002)