

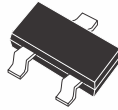
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**CMPSH-3
CMPSH-3A
CMPSH-3C
CMPSH-3S**

SCHOTTKY DIODES

Central
Semiconductor Corp.



SOT-23 CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3 Series types are Silicon Schottky diodes designed for surface mount fast switching applications requiring a low forward voltage drop.

The following configurations are available:

CMPSH-3	SINGLE	MARKING CODE: D95
CMPSH-3A	DUAL, COMMON ANODE	MARKING CODE: DB1
CMPSH-3C	DUAL, COMMON CATHODE	MARKING CODE: DB2
CMPSH-3S	DUAL, IN SERIES	MARKING CODE: DA5

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
Continuous Forward Current	I_F	100	mA
Peak Repetitive Forward Current	I_{FRM}	350	mA
Forward Surge Current, $t_p=10$ ms	I_{FSM}	750	mA
Power Dissipation	P_D	350	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	θ_{JA}	357	$^{\circ}\text{C}/\text{W}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
B_{VR}	$I_R=100\mu\text{A}$	30			V
V_F	$I_F=2.0\text{mA}$		0.29	0.33	V
V_F	$I_F=15\text{mA}$		0.40	0.45	V
V_F	$I_F=100\text{mA}$		0.74	1.00	V
I_R	$V_R=25\text{V}$		90	500	nA
C_T	$V_R=25\text{V}, T_A=100^{\circ}\text{C}$		25	100	μA
r_r	$V_R=1.0\text{V}, f=1$ MHz		7.0		pF
I_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns



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All dimensions in inches (mm).

