



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CMUSH2-4
CMUSH2-4A
CMUSH2-4C
CMUSH2-4S

**SURFACE MOUNT SILICON
SCHOTTKY DIODES**



SOT-523 CASE



www.centralemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUSH2-4 series devices are silicon Schottky diodes, epoxy molded in a SOT-523 surface mount package, designed for fast switching applications requiring a low forward voltage drop.

CMUSH2-4: SINGLE
CMUSH2-4A: DUAL, COMMON ANODE
CMUSH2-4C: DUAL, COMMON CATHODE
CMUSH2-4S: DUAL, IN SERIES

MARKING CODE: C42
MARKING CODE: C4A
MARKING CODE: C4C
MARKING CODE: C4S

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

Peak Repetitive Reverse Voltage
Continuous Forward Current
Peak Repetitive Forward Current
Peak Forward Surge Current, $t_p=10\text{ms}$
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM}	40
I_F	200
I_{FRM}	300
I_{FSM}	600
P_D	250
T_J, T_{stg}	-65 to +150
Θ_{JA}	500

UNITS

V
mA
mA
mA
mW
 $^{\circ}\text{C}$
 $^{\circ}\text{C/W}$

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

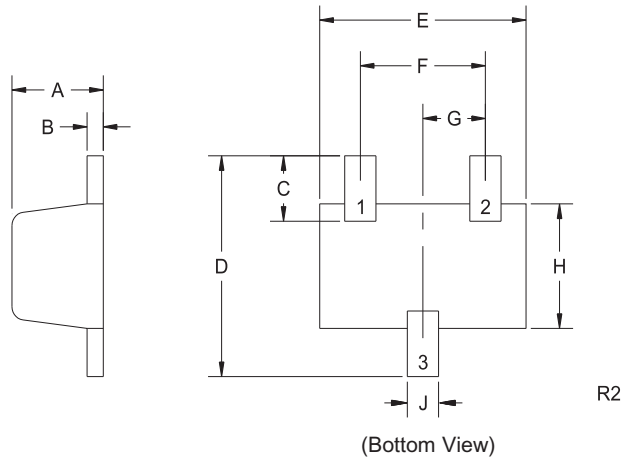
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=25\text{V}$		80	500	nA
I_R	$V_R=25\text{V}, T_A=100^{\circ}\text{C}$		25	100	μA
BV_R	$I_R=100\mu\text{A}$	40	55		V
V_F	$I_F=100\mu\text{A}$		240	260	mV
V_F	$I_F=500\mu\text{A}$		285	310	mV
V_F	$I_F=1.0\text{mA}$		305	330	mV
V_F	$I_F=50\text{mA}$		535	600	mV
V_F	$I_F=100\text{mA}$		670	750	mV
C_J	$V_R=1.0\text{V}, f=1.0\text{MHz}$			10	pF
t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

CMUSH2-4
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SURFACE MOUNT SILICON
SCHOTTKY DIODES



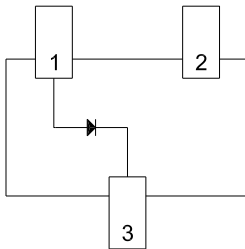
SOT-523 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.023	0.031	0.58	0.78
B	0.002	0.008	0.04	0.20
C	0.013	0.021	0.34	0.54
D	0.059	0.067	1.50	1.70
E	0.059	0.067	1.50	1.70
F	0.035	0.043	0.90	1.10
G	0.020		0.50	
H	0.031	0.039	0.78	0.98
J	0.010	0.014	0.25	0.35

SOT-523 (REV: R2)

PIN CONFIGURATIONS

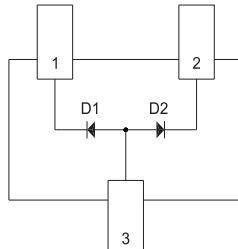


CMUSH2-4

LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

MARKING CODE: C42

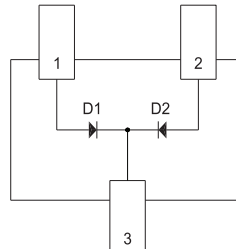


CMUSH2-4A

LEAD CODE:

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

MARKING CODE: C4A

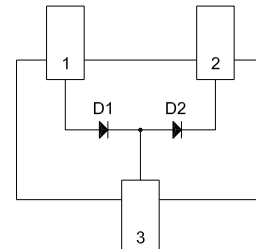


CMUSH2-4C

LEAD CODE:

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

MARKING CODE: C4C



CMUSH2-4S

LEAD CODE:

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

MARKING CODE: C4S

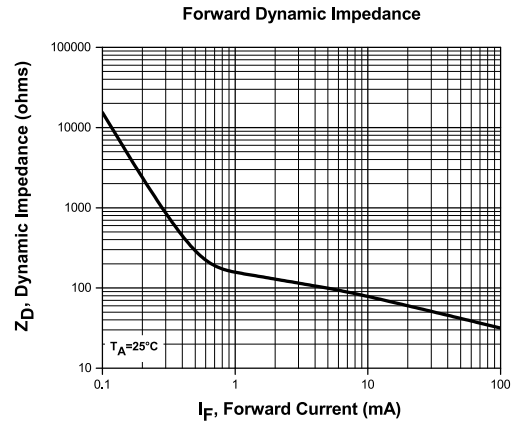
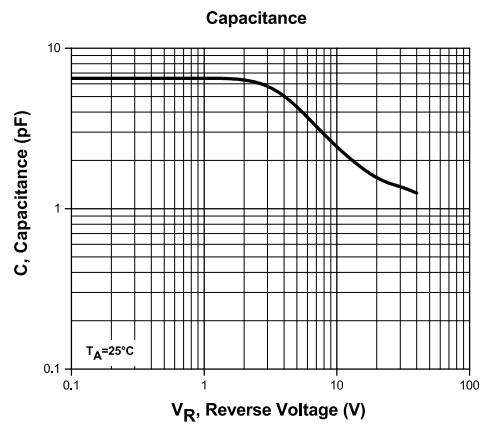
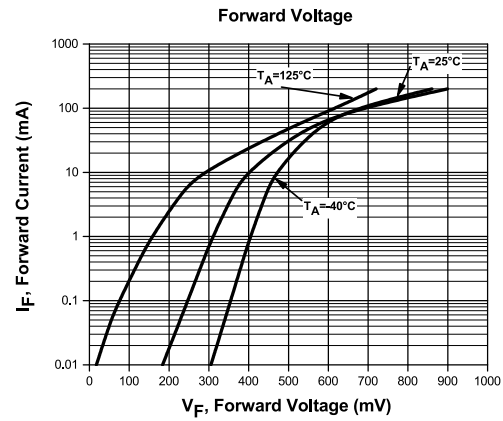
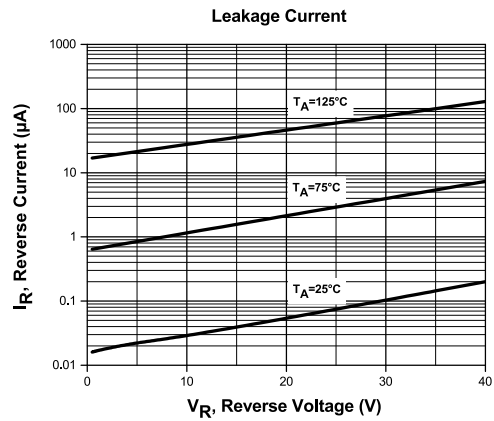
R3 (10-December 2015)

CMUSH2-4
CMUSH2-4A
CMUSH2-4C
CMUSH2-4S

SURFACE MOUNT SILICON
SCHOTTKY DIODES



TYPICAL ELECTRICAL CHARACTERISTICS



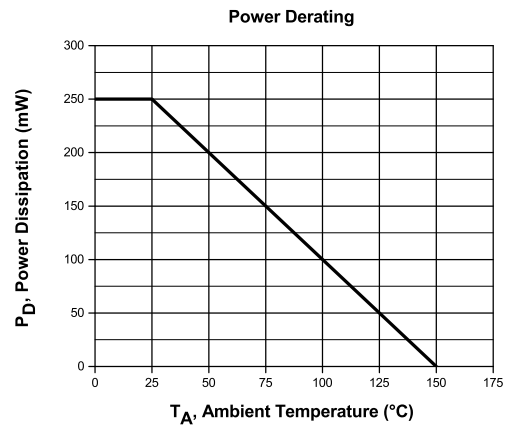
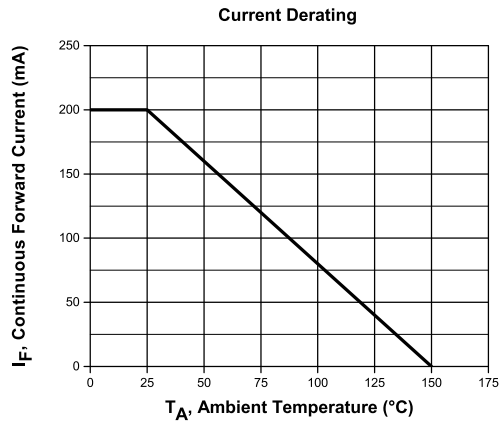
R3 (10-December 2015)

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SURFACE MOUNT SILICON
SCHOTTKY DIODES



TYPICAL ELECTRICAL CHARACTERISTICS



R3 (10-December 2015)

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
- Custom bar coding for shipments
- Custom product packing

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
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- 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).

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