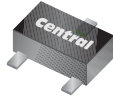


CMUSH2-4
CMUSH2-4A
CMUSH2-4C
CMUSH2-4S

**SURFACE MOUNT
SILICON SCHOTTKY DIODES**

ULTRAmini™



SOT-523 CASE



www.centra-semi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUSH2-4 Series types are Silicon Schottky Diodes, epoxy molded in a ULTRAmi™ 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°C)

Peak Repetitive Reverse Voltage
Continuous Forward Current
Peak Repetitive Forward Current
Peak Forward Surge Current, tp=10ms
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
°C
°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =35V		170	500	nA
I _R	V _R =35V, T _A =100°C		25	100	μA
BV _R	I _R =100μA	40	55		V
V _F	I _F =100μA		240	260	mV
V _F	I _F =500μA		285	310	mV
V _F	I _F =1.0mA		305	330	mV
V _F	I _F =50mA		535	600	mV
V _F	I _F =100mA		670	750	mV
C _T	V _R =1.0V, f=1.0MHz			10	pF
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =100Ω			5.0	ns

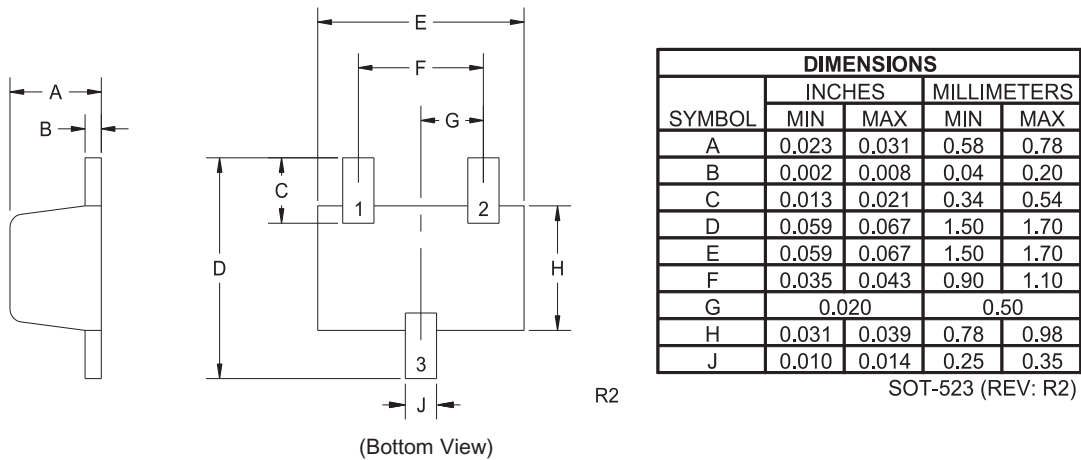
R1 (9-February 2010)

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

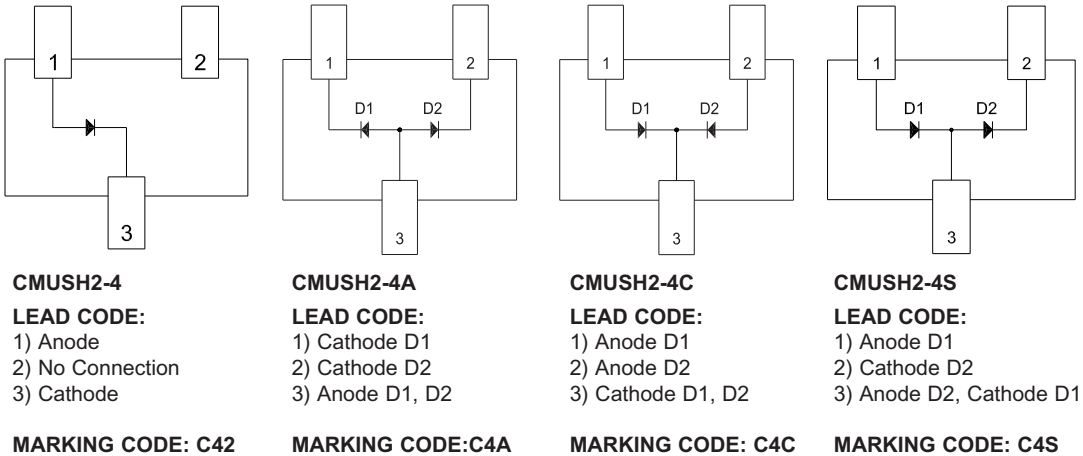
SURFACE MOUNT
SILICON SCHOTTKY DIODES



SOT-523 CASE - MECHANICAL OUTLINE



PIN CONFIGURATIONS



R1 (9-February 2010)