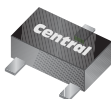


CMUD6263E CMUD6263CE
CMUD6263AE CMUD6263SE

**ENHANCED SPECIFICATION
SURFACE MOUNT
SILICON SCHOTTKY DIODES**

ULTRAmini™



ENHANCED
E
SPECIFICATION

SOT-523 CASE

Central
Semiconductor Corp.

www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMUD6263E Series types are Enhanced High Voltage Silicon Schottky diodes, epoxy molded in an ULTRAmi™ SOT-523 surface mount package, designed for low current fast switching applications requiring a low forward voltage drop.

ENHANCED SPECIFICATIONS:

- ♦ $I_F = 70\text{mA}$ (from 15mA)
- ♦ $I_{FSM} = 100\text{mA}$ (from 50mA)

The following configurations are available:

CMUD6263E SINGLE
CMUD6263AE DUAL, COMMON ANODE
CMUD6263CE DUAL, COMMON CATHODE
CMUD6263SE DUAL, IN SERIES

MARKING CODE: C63
MARKING CODE: C6A
MARKING CODE: C6C
MARKING CODE: C6S

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

Peak Repetitive Reverse Voltage
♦ **Continuous Forward Current**
♦ **Peak Forward Surge Current, $t_p=1.0\text{s}$**
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

V_{RRM} 70
 I_F 70
 I_{FSM} 100
 P_D 250
 T_J, T_{stg} -65 to +150
 Θ_{JA} 500

UNITS

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

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
♦ I_R	$V_R=50\text{V}$		10	100	nA
BV_R	$I_R=10\mu\text{A}$	70			V
♦ ♦ V_F	$I_F=100\mu\text{A}$		290	320	mV
♦ ♦ V_F	$I_F=500\mu\text{A}$		345	380	mV
♦ V_F	$I_F=1.0\text{mA}$		380	400	mV
♦ ♦ V_F	$I_F=10\text{mA}$		700	750	mV
♦ ♦ V_F	$I_F=15\text{mA}$		830	900	mV
C_T	$V_R=0, f=1.0\text{MHz}$			2.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

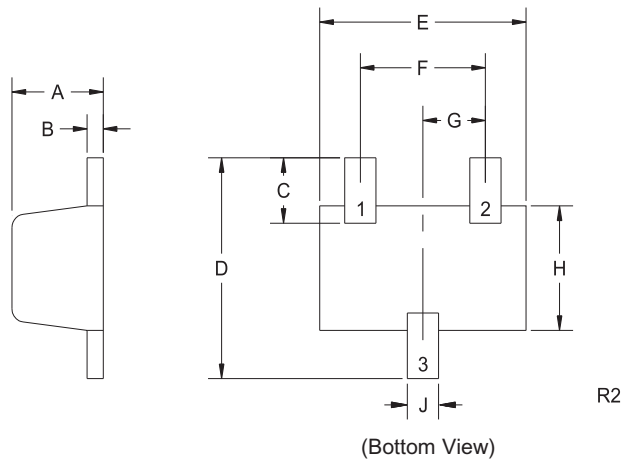
- ♦ Enhanced specification
- ♦ ♦ Additional Enhanced specification

CMUD6263E CMUD6263CE
CMUD6263AE CMUD6263SE

**ENHANCED SPECIFICATION
SURFACE MOUNT
SILICON SCHOTTKY DIODES**



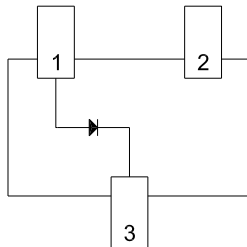
SOT-523 CASE - MECHANICAL OUTLINE



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

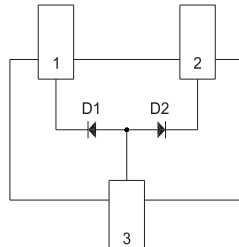


CMUD6263E

LEAD CODE:

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

MARKING CODE: C63

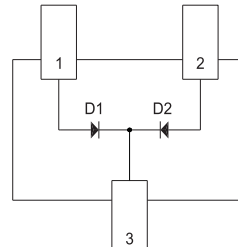


CMUD6263EA

LEAD CODE:

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

MARKING CODE: C6A

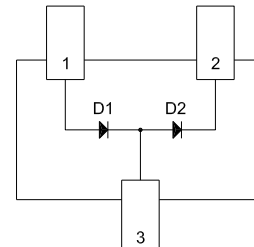


CMUD6263EC

LEAD CODE:

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

MARKING CODE: C6C



CMUD6263ES

LEAD CODE:

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

MARKING CODE: 6CS

R2 (9-February 2010)