

CM6D6263
CM6D6263A
CM6D6263C
CM6D6263S

**SURFACE MOUNT
SILICON SCHOTTKY DIODES**

SUPERmini™



SOT-323 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CM6D6263 Series types are High Voltage Silicon Schottky diodes, epoxy molded in a SUPERmini™ surface mount package, designed for low current fast switching applications requiring a low forward voltage drop.

The following configurations are available:

CM6D6263: SINGLE
CM6D6263A: DUAL, COMMON ANODE
CM6D6263C: DUAL, COMMON CATHODE
CM6D6263S: DUAL, IN-SERIES

MARKING CODE: 76D
MARKING CODE: 98D
MARKING CODE: 97D
MARKING CODE: 96D

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	15
I_{FSM}	50
P_D	275
T_J, T_{stg}	-65 to +150
θ_{JA}	455

UNITS

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

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

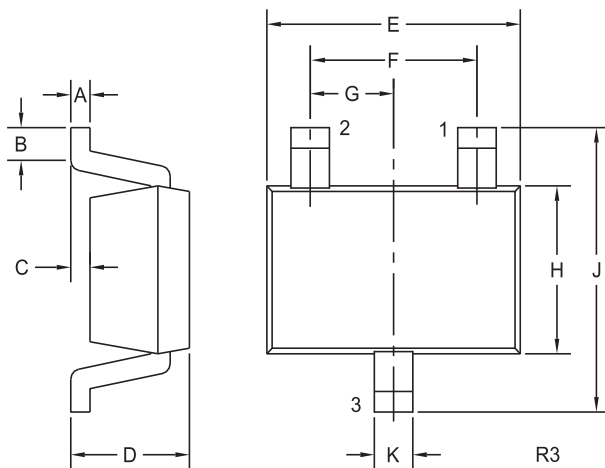
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=50\text{V}$		98	200	nA
BV_R	$I_R=10\mu\text{A}$	70			V
V_F	$I_F=1.0\text{mA}$		395	410	mV
C_T	$V_R=0, f=1.0\text{MHz}$			2.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$			5.0	ns

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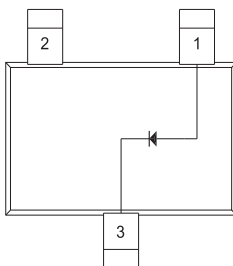
SOT-323 CASE - MECHANICAL OUTLINE



SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.002	0.008	0.05	0.20
B	0.004	-	0.10	-
C	-	0.004	-	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.045	0.053	1.15	1.35
J	0.079	0.087	2.00	2.20
K	0.008	0.016	0.20	0.40

SOT-323 (REV: R3)

PIN CONFIGURATIONS

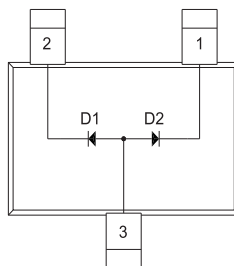


CMSD6263

LEAD CODE:

- 1) Anode
- 2) NC
- 3) Cathode

MARKING CODE: 76D

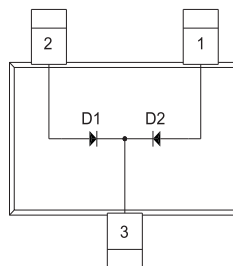


CMSD6263A

LEAD CODE:

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

MARKING CODE: 98D

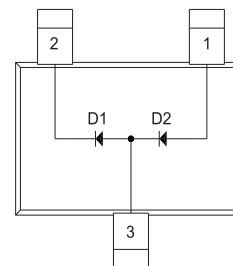


CMSD6263C

LEAD CODE:

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

MARKING CODE: 97D



CMSD6263S

LEAD CODE:

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

MARKING CODE: 96D

R3 (8-February 2010)