

CMSD6263  
 CMSD6263A  
 CMSD6263C  
 CMSD6263S

**SURFACE MOUNT  
 SILICON SCHOTTKY DIODES**



www.centrasemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSD6263 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.

**SUPERmini™**



**SOT-323 CASE**

The following configurations are available:

**CMSD6263:** SINGLE  
**CMSD6263A:** DUAL, COMMON ANODE  
**CMSD6263C:** DUAL, COMMON CATHODE  
**CMSD6263S:** DUAL, IN-SERIES

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

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C)

Peak Repetitive Reverse Voltage  
 Continuous Forward Current  
 Peak Forward Surge Current, tp=1.0s  
 Power Dissipation  
 Operating and Storage Junction Temperature  
 Thermal Resistance

**SYMBOL**

V<sub>RRM</sub> 70  
 I<sub>F</sub> 15  
 I<sub>FSM</sub> 50  
 P<sub>D</sub> 275  
 T<sub>J</sub>, T<sub>stg</sub> -65 to +150  
 Θ<sub>JA</sub> 455

**UNITS**

V  
 mA  
 mA  
 mW  
 °C  
 °C/W

**ELECTRICAL CHARACTERISTICS PER DIODE:** (T<sub>A</sub>=25°C unless otherwise noted)

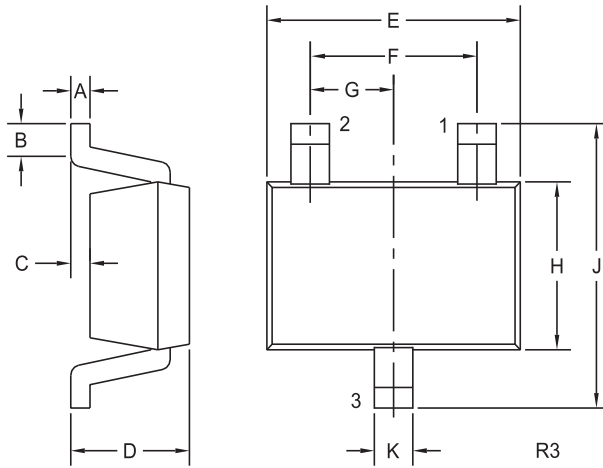
SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =50V		98	200	nA
BV <sub>R</sub>	I <sub>R</sub> =10μA	70			V
V <sub>F</sub>	I <sub>F</sub> =1.0mA		395	410	mV
C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz			2.0	pF
t <sub>rr</sub>	I <sub>R</sub> =I <sub>F</sub> =10mA, I <sub>rr</sub> =1.0mA, R <sub>L</sub> =100Ω			5.0	ns

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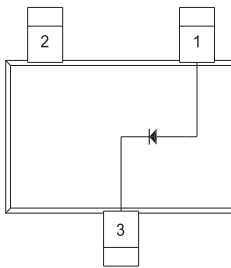
**SOT-323 CASE - MECHANICAL OUTLINE**



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**

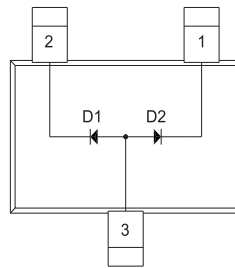


**CMSD6263**

**LEAD CODE:**

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

**MARKING CODE: 76D**

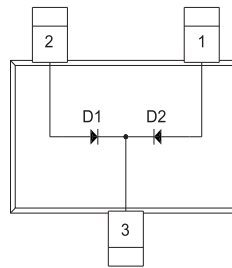


**CMSD6263A**

**LEAD CODE:**

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

**MARKING CODE: 98D**

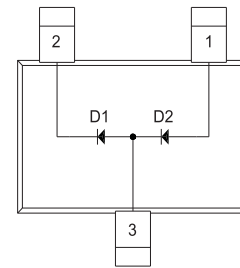


**CMSD6263C**

**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)