

CM6D6263  
CM6D6263A  
CM6D6263C  
CM6D6263S

**SURFACE MOUNT  
SILICON SCHOTTKY DIODES**

**SUPERmini™**



**SOT-323 CASE**



[www.centralemi.com](http://www.centralemi.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<sub>A</sub>=25°C)

Peak Repetitive Reverse Voltage  
Continuous Forward Current  
Peak Forward Surge Current, t<sub>p</sub>=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)

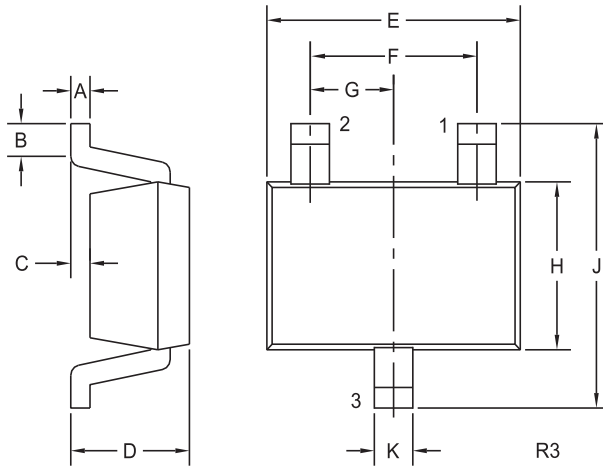
| SYMBOL          | TEST CONDITIONS                                                                    | MIN | TYP | MAX | UNITS |
|-----------------|------------------------------------------------------------------------------------|-----|-----|-----|-------|
| I <sub>R</sub>  | V <sub>R</sub> =50V                                                                |     | 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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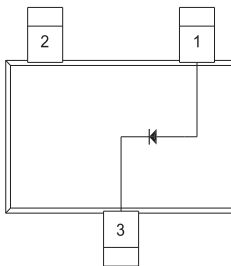
### SOT-323 CASE - MECHANICAL OUTLINE



| 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

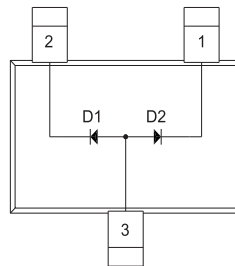


**CMSD6263**

**LEAD CODE:**

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

**MARKING CODE: 76D**

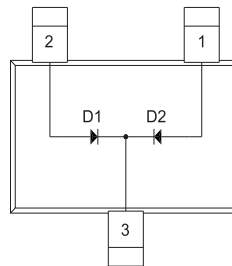


**CMSD6263A**

**LEAD CODE:**

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

**MARKING CODE: 98D**

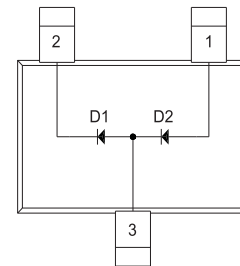


**CMSD6263C**

**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)