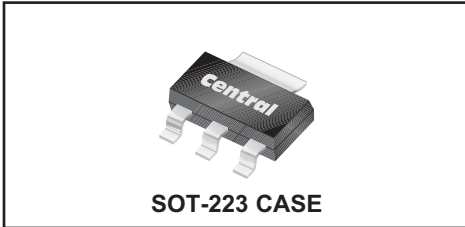


**CZSH5-40C**  
**SURFACE MOUNT**  
**DUAL, COMMON CATHODE SILICON**  
**SCHOTTKY POWER RECTIFIER**  
**5 AMP, 40 VOLTS**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CZSH5-40C is manufactured with two 5 Amp Schottky rectifiers assembled in a common cathode configuration and packaged in a SOT-223 case. This device has been designed for use in all types of commercial, industrial, entertainment, computer and automotive applications which require a high current device.

**MARKING: FULL PART NUMBER**

**MAXIMUM RATINGS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

|  | <b>SYMBOL</b>  |             | <b>UNITS</b>     |
|--|----------------|-------------|------------------|
| Peak Repetitive Reverse Voltage                    | $V_{RRM}$      | 40          | V                |
| DC Blocking Voltage                                | $V_R$          | 40          | V                |
| RMS Reverse Voltage                                | $V_{R(RMS)}$   | 28          | V                |
| Average Forward Current ( $T_A=75^\circ\text{C}$ ) | $I_O$          | 5           | A                |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$     | $I_{FSM}$      | 125         | A                |
| Operating and Storage Junction Temperature         | $T_J, T_{stg}$ | -65 to +150 | $^\circ\text{C}$ |

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

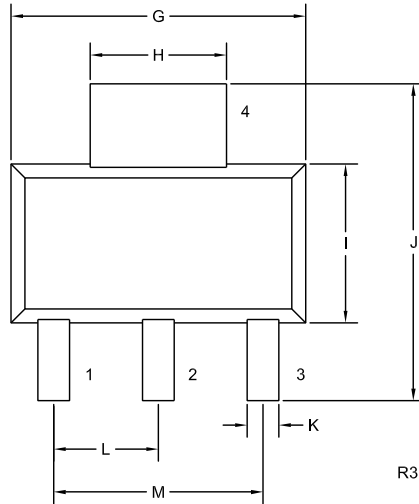
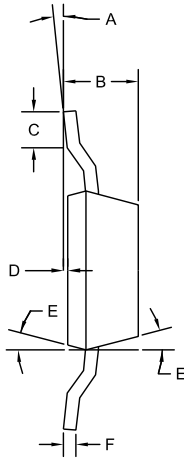
| <b>SYMBOL</b> | <b>TEST CONDITIONS</b>                  | <b>MAX</b> | <b>UNITS</b> |
|---------------|---|------------|--------------|
| $I_R$         | $V_R=40\text{V}$                        | 3.0        | mA           |
| $I_R$         | $V_R=40\text{V}, T_A=100^\circ\text{C}$ | 20         | mA           |
| $V_F$         | $I_F=5.0\text{A}$                       | 0.55       | V            |

CZSH5-40C

**SURFACE MOUNT  
DUAL, COMMON CATHODE SILICON  
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5 AMP, 40 VOLTS**



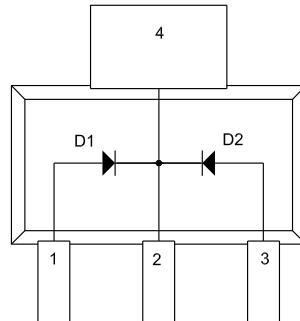
**SOT-223 CASE - MECHANICAL OUTLINE**



| SYMBOL | DIMENSIONS |       | DIMENSIONS  |      |
|--------|------------|-------|-------------|------|
|        | INCHES     |       | MILLIMETERS |      |
|        | MIN        | MAX   | MIN         | MAX  |
| A      | 0°         | 10°   | 0°          | 10°  |
| B      | 0.059      | 0.071 | 1.50        | 1.80 |
| C      | 0.018      | —     | 0.45        | —    |
| D      | 0.000      | 0.004 | 0.00        | 0.10 |
| E      | 15°        |       | 15°         |      |
| F      | 0.009      | 0.014 | 0.23        | 0.35 |
| G      | 0.248      | 0.264 | 6.30        | 6.70 |
| H      | 0.114      | 0.122 | 2.90        | 3.10 |
| I      | 0.130      | 0.146 | 3.30        | 3.70 |
| J      | 0.264      | 0.287 | 6.70        | 7.30 |
| K      | 0.024      | 0.033 | 0.60        | 0.85 |
| L      | 0.091      |       | 2.30        |      |
| M      | 0.181      |       | 4.60        |      |

SOT-223 (REV: R3)

**PIN CONFIGURATION**



**LEAD CODE:**

- 1) Anode D1
  - 2) Cathode D1, D2
  - 3) Anode D2
  - 4) Cathode D1, D2
- Pin 2 and Pin 4 are common.

**MARKING:**

**FULL PART NUMBER**

R0 (5-October 2010)