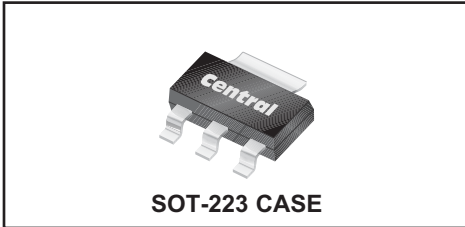


CZSH6-100C
SURFACE MOUNT
DUAL, COMMON CATHODE SILICON
SCHOTTKY POWER RECTIFIER
6 AMP, 100 VOLTS



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CZSH6-100C is manufactured with two 3 Amp Schottky rectifiers assembled in a common cathode configuration and packaged in a SOT-223 case. This device has been designed for high voltage applications requiring a low forward voltage drop.

MARKING: FULL PART NUMBER

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

| | SYMBOL | | UNITS |
|--|----------------|-------------|------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | V |
| DC Blocking Voltage | V_R | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 70 | V |
| Average Forward Current ($T_A=75^\circ\text{C}$) | I_O | 6.0 | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | 75 | 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)

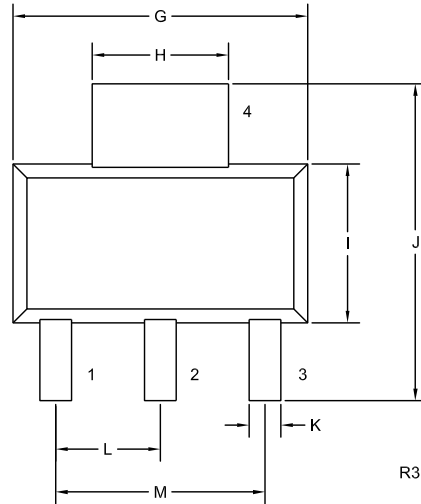
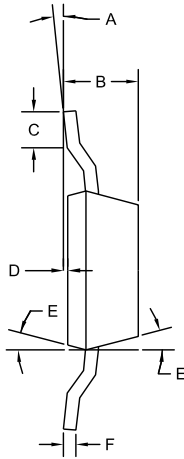
| SYMBOL | TEST CONDITIONS | MAX | UNITS |
|---------------|--|------------|---------------|
| I_R | $V_R=100\text{V}$ | 10 | μA |
| I_R | $V_R=100\text{V}, T_A=100^\circ\text{C}$ | 20 | mA |
| V_F | $I_F=1.0\text{A}$ | 0.7 | V |
| V_F | $I_F=3.0\text{A}$ | 0.8 | V |
| V_F | $I_F=6.0\text{A}$ | 1.0 | V |

CZSH6-100C

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6 AMP, 100 VOLTS**



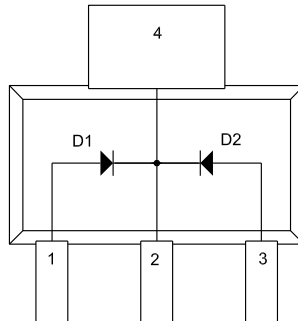
SOT-223 CASE - MECHANICAL OUTLINE



| 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 (22-November 2010)