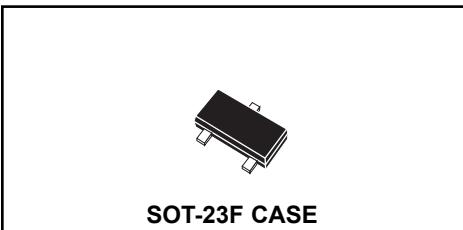


CMPSH05-4C
SURFACE MOUNT
DUAL, COMMON CATHODE
HIGH CURRENT, LOW V_F
SILICON SCHOTTKY DIODE



SOT-23F CASE

MARKING CODE: C405

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

| | SYMBOL | | UNITS |
|--|----------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 40 | V |
| Continuous Forward Current | I_F | 500 | mA |
| Peak Repetitive Forward Current, $t_p \leq 1\text{ms}$ | I_{FRM} | 3.5 | A |
| Forward Surge Current, $t_p=8\text{ms}$ | I_{FSM} | 10 | A |
| Power Dissipation | P_D | 350 | mW |
| Operating and Storage | | | |
| Junction Temperature | T_J, T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| Thermal Resistance | Θ_{JA} | 357 | $^\circ\text{C/W}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|---------------|--------------------------------------|------------|------------|---------------|
| I_R | $V_R= 10\text{V}$ | | 20 | μA |
| I_R | $V_R= 30\text{V}$ | | 100 | μA |
| BV_R | $I_R= 500\mu\text{A}$ | 40 | | V |
| V_F | $I_F= 100\mu\text{A}$ | | 0.13 | V |
| V_F | $I_F= 1.0\text{mA}$ | | 0.21 | V |
| V_F | $I_F= 10\text{mA}$ | | 0.27 | V |
| V_F | $I_F= 100\text{mA}$ | | 0.35 | V |
| V_F | $I_F= 500\text{mA}$ | | 0.47 | V |
| C_T | $V_R= 1.0\text{V}, f=1.0\text{ MHz}$ | | 50 | pF |

Central™
Semiconductor Corp.

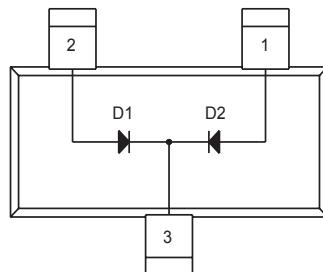
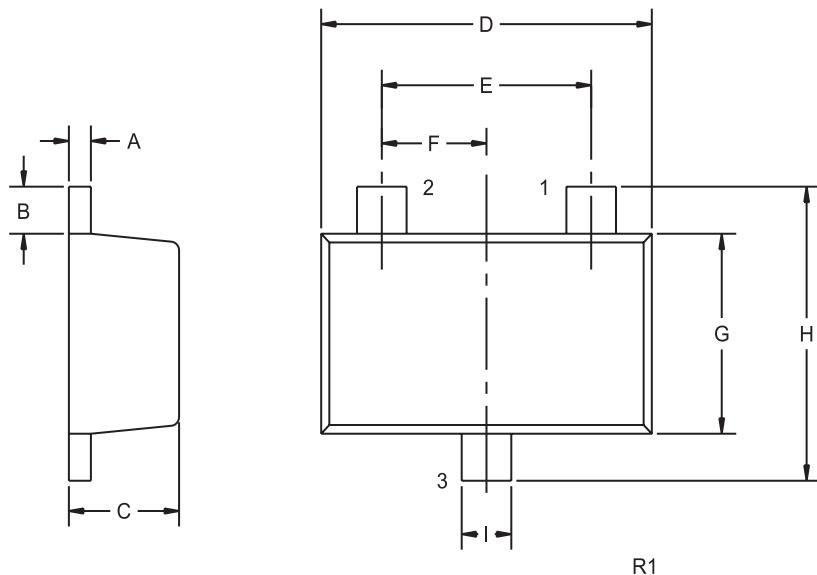
DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH05-4C is a Dual, Common Cathode HIGH CURRENT, LOW V_F 40 volt Schottky Diode pair packaged in a space saving SOT-23F surface mount case. This device has been designed for small signal general purpose applications when small size and operational efficiency are prime requirements.

SPECIFICATIONS:

- Low $V_F = 0.35\text{V}$ max @ 100mA
- $V_{RRM} = 40\text{V}$
- $I_F = 500\text{mA}$

SOT-23F CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE D2
- 2) ANODE D1
- 3) CATHODE D1, D2

MARKING CODE: C405

| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.004 | 0.008 | 0.10 | 0.20 |
| B | 0.012 | 0.020 | 0.30 | 0.50 |
| C | 0.031 | 0.039 | 0.80 | 1.00 |
| D | 0.110 | 0.118 | 2.80 | 3.00 |
| E | 0.075 | | 1.90 | |
| F | 0.037 | | 0.95 | |
| G | 0.059 | 0.067 | 1.50 | 1.70 |
| H | 0.091 | 0.098 | 2.30 | 2.50 |
| I | 0.014 | 0.018 | 0.35 | 0.45 |

SOT-23F (REV: R1)

R0 (14-September 2004)