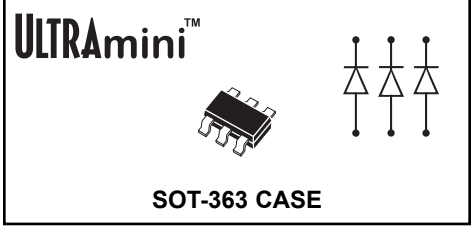


CMKSH-3T
SURFACE MOUNT
ULTRAmi™
TRIPLE ISOLATED
SILICON SCHOTTKY DIODES



Central™

Semiconductor Corp.

DESCRIPTION:
 The CENTRAL SEMICONDUCTOR CMKSH-3T type contains three (3) Isolated Silicon Schottky Diodes, epoxy molded in a SOT-363 surface mount package. This ULTRAmi™ device has been designed for switching applications requiring a low forward voltage drop.

MARKING CODE: KHT

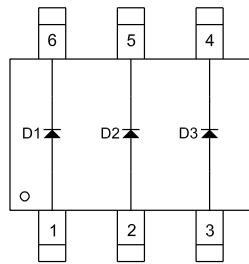
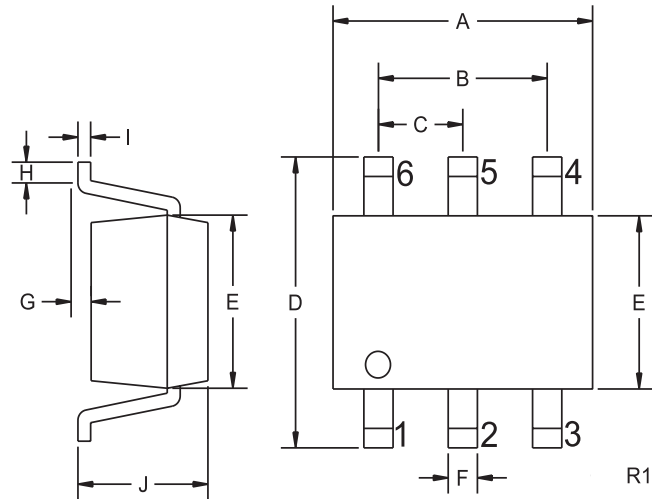
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

| | SYMBOL | | UNITS |
|--|----------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 30 | V |
| Continuous Forward Current | I_F | 100 | mA |
| Peak Repetitive Forward Voltage | I_{FRM} | 350 | mA |
| Forward Surge Current, $t_p=10\text{ms}$ | I_{FSM} | 750 | mA |
| 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 | TYP | MAX | UNITS |
|---------------|---|------------|------------|------------|---------------|
| B_{VR} | $I_R=100\mu\text{A}$ | 30 | | | V |
| V_F | $I_F=2.0\text{mA}$ | | 0.29 | 0.33 | V |
| V_F | $I_F=15\text{mA}$ | | 0.40 | 0.45 | V |
| V_F | $I_F=100\text{mA}$ | | 0.74 | 1.00 | V |
| I_R | $V_R=25\text{V}$ | | 90 | 500 | nA |
| I_R | $V_R=25\text{V}, T_A=100^\circ\text{C}$ | | 25 | 100 | μA |
| C_T | $V_R=1.0\text{V}, f=1\text{ MHz}$ | | 7.0 | | pF |
| t_{rr} | $I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$ | | | 5.0 | ns |

SOT-363 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) ANODE D1
- 2) ANODE D2
- 3) ANODE D3
- 4) CATHODE D3
- 5) CATHODE D2
- 6) CATHODE D1

MARKING CODE: KHT

| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.073 | 0.085 | 1.85 | 2.15 |
| B | 0.051 | | 1.30 | |
| C | 0.026 | | 0.65 | |
| D | 0.075 | 0.091 | 1.90 | 2.30 |
| E | 0.043 | 0.055 | 1.10 | 1.40 |
| F | 0.006 | 0.012 | 0.15 | 0.30 |
| G | 0.000 | 0.004 | 0.00 | 0.10 |
| H | 0.010 | - | 0.25 | - |
| I | 0.004 | 0.010 | 0.10 | 0.25 |
| J | 0.031 | 0.039 | 0.80 | 1.00 |

SOT-363 (REV: R1)