CMKD4448

SURFACE MOUNT TRIPLE ISOLATED HIGH SPEED SILICON SWITCHING DIODES





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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMKD4448 type contains three (3) Isolated High Speed Silicon Switching Diodes, manufactured by the epitaxial planar process, epoxy molded in an ULTRAmini™ surface mount package, designed for applications requiring high speed switching applications.

MARKING CODE: K48

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | | UNITS |
|--|-----------------------------------|-------------|-------|
| Continuous Reverse Voltage | V_{R} | 75 | V |
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | V |
| Continuous Forward Current | I _F | 250 | mA |
| Peak Repetitive Forward Current | ^I FRM | 500 | mA |
| Peak Forward Surge Current, tp=1.0μs | ^I FSM | 4.0 | Α |
| Peak Forward Surge Current, tp=1.0s | ^I FSM | 1.0 | Α |
| Power Dissipation | P_{D} | 325 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +175 | °C |
| Thermal Resistance | Θ_{JA} | 461 | °C/W |

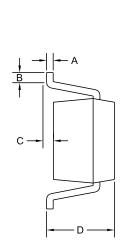
| SYMBOL | AL CHARACTERISTICS PER DIODE: TEST CONDITIONS | MIN | MAX | UNITS |
|-----------------|--|-----|-----|-------|
| I_{R} | V _R =20V | | 25 | nA |
| BV_R | I _R =5.0μA | 75 | | V |
| BV_R | I _R =100μA | 100 | | V |
| VF | I _F =100mA | | 1.0 | V |
| C_T | $V_R=0$, $f=1.0MHz$ | | 4.0 | pF |
| t _{rr} | $I_R = I_F = 10 \text{mA}$, $I_{rr} = 1.0 \text{mA}$, $R_L = 100 \Omega$ | | 4.0 | ns |

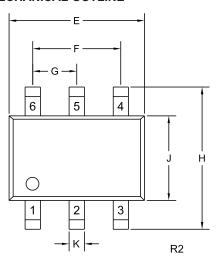
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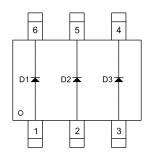


SOT-363 CASE - MECHANICAL OUTLINE





PIN CONFIGURATION



| DIMENSIONS | | | | | | | |
|------------|--------|-------|-------------|------|--|--|--|
| | INCHES | | MILLIMETERS | | | | |
| SYMBOL | MIN | MAX | MIN | MAX | | | |
| Α | 0.004 | 0.010 | 0.10 | 0.25 | | | |
| В | 0.005 | - | 0.12 | - | | | |
| С | 0.000 | 0.004 | 0.00 | 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 | | | | |
| Н | 0.075 | 0.091 | 1.90 | 2.30 | | | |
| J | 0.043 | 0.055 | 1.10 | 1.40 | | | |
| K | 0.006 | 0.012 | 0.15 | 0.30 | | | |

SOT-363 (REV: R2)

LEAD CODE:

- 1) Anode D1
- 2) Anode D2
- 3) Anode D3
- 4) Cathode D3
- 5) Cathode D2
- 6) Cathode D1

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R6 (19-September 2011)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- · Special wafer diffusions
- · PbSn plating options
- Package details
- · Application notes
- · Application and design sample kits
- · Custom product and package development

CONTACT US

Corporate Headquarters & Customer Support Team

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