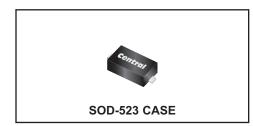


SURFACE MOUNT SILICON HIGH CURRENT LOW V_F SCHOTTKY DIODE





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOSH2-4L is a high current, low V_F silicon Schottky diode in an SOD-523 surface mount package. This device offers a V_F as low as 0.33 volts and is designed for small signal general purpose applications where size and low loss is required.

MARKING CODE: 4L

| MAXIMUM RATINGS: (T _A =25°C) Peak Repetitive Reverse Voltage | SYMBOL V _{RRM} | 40 | UNITS V |
|--|-----------------------------------|-------------|------------|
| Continuous Forward Current | ١ _F | 200 | mA |
| Peak Repetitive Forward Current | IFRM | 350 | mA |
| Peak Forward Surge Current, tp=10ms | IFSM | 1.0 | А |
| Power Dissipation | PD | 250 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | Θ_{JA} | 500 | °C/W |

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

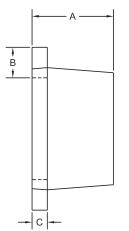
| SYMBOL | TEST CONDITIONS | MIN | ΤΥΡ | MAX | UNITS |
|-----------------|---|-----|------|-------|-------|
| I _R | V _R =20V | | 11 | 50 | μA |
| BVR | Ι _R =100μΑ | 40 | 53 | | V |
| VF | I _F =10mA | | 0.24 | 0.325 | V |
| VF | I _F =100mA | | 0.35 | 0.4 | V |
| VF | I _F =200mA | | 0.42 | 0.5 | V |
| СЈ | V _R =4.0V, f=1.0MHz | | 8.5 | 10 | pF |
| t _{rr} | $I_F=I_R=10$ mA, $I_{rr}=1.0$ mA, $R_L=100\Omega$ | | 4.0 | 5.0 | ns |

R6 (13-November 2015)

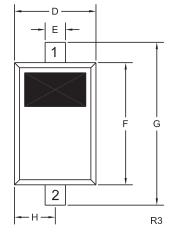


CMOSH2-4L

SURFACE MOUNT SILICON HIGH CURRENT LOW V_F SCHOTTKY DIODE



SOD-523 CASE - MECHANICAL OUTLINE



| LEAD CODE: | |
|------------|--|
| 1) Cathode | |
| 2) Anode | |

MARKING CODE: 4L

| DIMENSIONS | | | | | | |
|-------------------|--------|-------|-------------|------|--|--|
| | INCHES | | MILLIMETERS | | | |
| SYMBOL | MIN | MAX | MIN | MAX | | |
| A | 0.020 | 0.031 | 0.50 | 0.80 | | |
| В | 0.008 | 0.016 | 0.20 | 0.40 | | |
| С | 0.002 | 0.008 | 0.05 | 0.20 | | |
| D | 0.028 | 0.035 | 0.70 | 0.90 | | |
| E | 0.008 | 0.014 | 0.20 | 0.35 | | |
| F | 0.039 | 0.055 | 1.00 | 1.40 | | |
| G | 0.055 | 0.071 | 1.40 | 1.80 | | |
| Н | 0.016 | | 0.40 | | | |
| SOD-523 (REV: R3) | | | | | | |

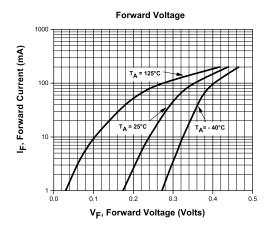
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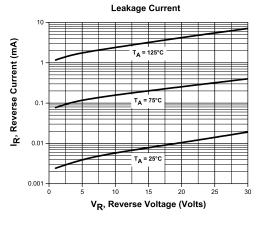


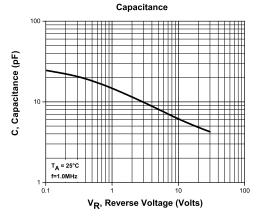


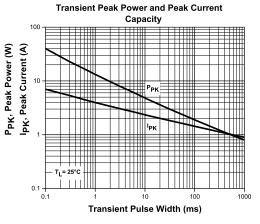
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TYPICAL ELECTRICAL CHARACTERISTICS







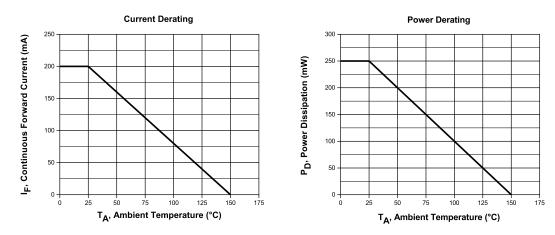
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TYPICAL ELECTRICAL CHARACTERISTICS

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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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

· Custom product packing

Custom bar coding for shipments

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

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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