CSHD3-100

SURFACE MOUNT SILICON HIGH VOLTAGE SCHOTTKY RECTIFIER 3.0 AMP, 100 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD3-100 is a silicon Schottky rectifier designed for high voltage applications requiring a low forward voltage drop.



MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_C=25°C unless otherwise noted)

| | SYMBOL | | UNITS |
|---|-----------------------------------|-------------|-------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | V |
| Average Rectified Forward Current (T _C =120°C) | IO | 3.0 | Α |
| Peak Forward Surge Current, tp=10ms | I _{FSM} | 50 | Α |
| Peak Repetitive Reverse Surge Current, tp=2.0µs | I _{RRM} | 1.0 | Α |
| Critical Rate of Rise of Reverse Voltage | dv/dt | 10,000 | V/µs |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | ΘJC | 3.5 | °C/W |

| ECTRICAL | CHARACTERISTICS: | (Ta=25°C unloss | othorwice noted) |
|-------------|---------------------|-----------------|------------------|
| LEG I RIGAL | . UHAKAU LEKISTIUS: | U C-ZO U Uniess | omerwise noteo |

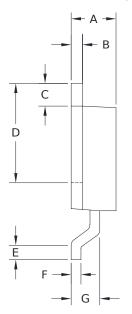
| SYMBOL I _R | TEST CONDITIONS VR=100V | TYP 9.0 | MAX 30 | UNITS µA |
|--------------------------|---|-------------------|-----------|--------------------|
| I _R | V _R =100V, T _C =125°C | 6.7 | 10 | mA |
| VF | I _F =3.0A | 0.61 | 0.85 | V |
| V_{F} | I _F =3.0A, T _C =125°C | 0.52 | 0.80 | V |
| Cı | V _P =0, f=1.0MHz | 676 | | pF |

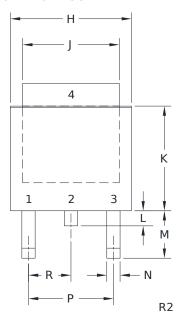
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SURFACE MOUNT SILICON HIGH VOLTAGE SCHOTTKY RECTIFIER 3.0 AMP, 100 VOLT



DPAK CASE - MECHANICAL OUTLINE



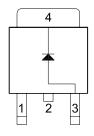


LEAD CODE:

- 1) No Connection
- 2) Cathode
- 3) Anode
- 4) Cathode

Pin 2 is common to the tab (4)

MARKING: FULL PART NUMBER



| DIMENSIONS | | | | |
|------------|--------|-------|------|------------|
| | INCHES | | М | ILLIMETERS |
| SYMBOL | MIN | MAX | MIN | MAX |
| Α | 0.083 | 0.108 | 2.10 | 2.75 |
| В | 0.016 | 0.035 | 0.40 | 0.89 |
| O | 0.035 | 0.063 | 0.89 | 1.60 |
| D | 0.203 | 0.228 | 5.15 | 5.79 |
| Ш | 0.020 | - | 0.51 | = |
| F | 0.016 | 0.024 | 0.40 | 0.60 |
| G | 0.0 | 061 | 1.55 | |
| Н | 0.248 | 0.268 | 6.30 | 6.81 |
| J | 0.195 | 0.217 | 4.95 | 5.50 |
| K | 0.209 | 0.245 | 5.30 | 6.22 |
| ┙ | 0.033 | | 0.83 | |
| М | 0.090 | 0.115 | 2.30 | 2.91 |
| Z | 0.012 | 0.045 | 0.30 | 1.14 |
| Ρ | 0.180 | | 4.60 | |
| R | 0.090 | | 2.30 | |

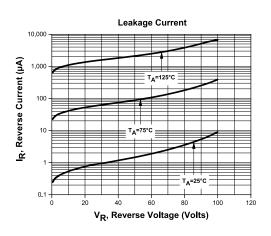
DPAK(REV:R2)

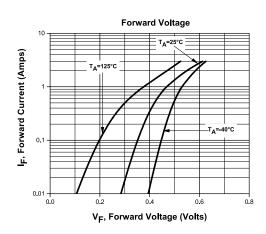
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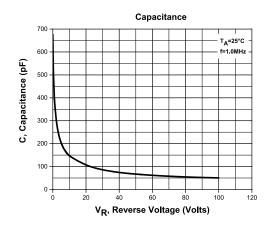
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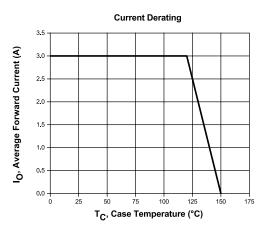


TYPICAL ELECTRICAL CHARACTERISTICS









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 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

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

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 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

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