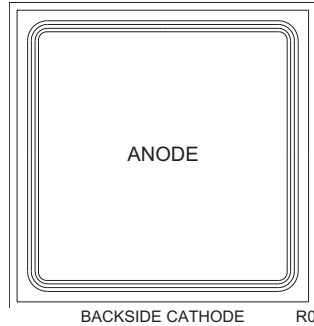


CPD85V-CMP SH1-4L

Schottky Rectifier Die

1.0 Amp, 40 Volt

The CPD85V-CMP SH1-4L is an ultra low V_F silicon Schottky rectifier designed for applications where operational efficiency is a prime requirement.



MECHANICAL SPECIFICATIONS:

| | |
|------------------------|------------------|
| Die Size | 39.4 x 39.4 MILS |
| Die Thickness | 7.1 MILS |
| Anode Bonding Pad Size | 35 x 35 MILS |
| Top Side Metalization | Al – 30,000Å |
| Back Side Metalization | Au – 9,000Å |
| Scribe Alley Width | 1.97 MILS |
| Wafer Diameter | 5 INCHES |
| Gross Die Per Wafer | 10,900 |

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

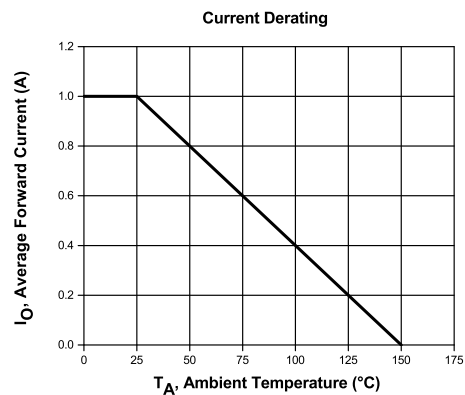
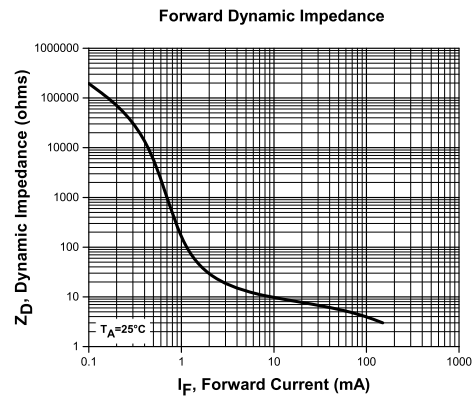
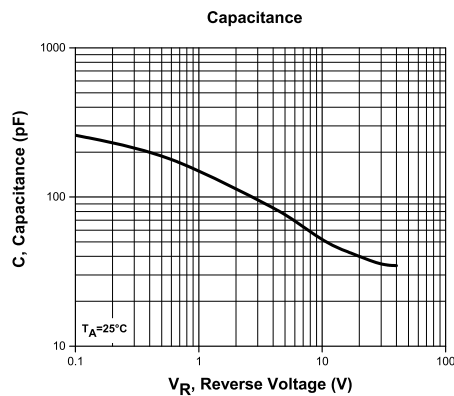
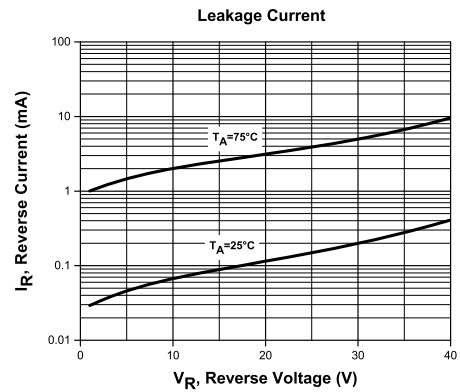
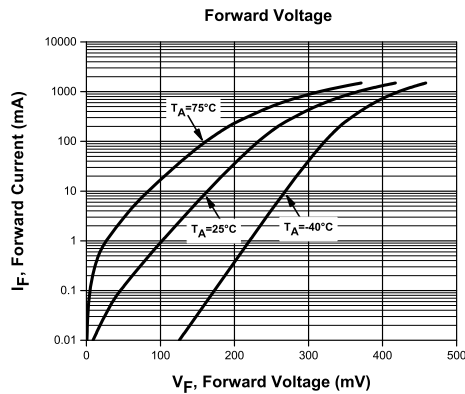
| | SYMBOL | | UNITS |
|--|----------------|-------------|--------------------|
| Continuous Reverse Voltage | V_R | 40 | V |
| Average Forward Current | I_O | 1.0 | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | 20 | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | -65 to +150 | $^{\circ}\text{C}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|--------|-----------------------------------|-----|-----|-----|---------------|
| I_R | $V_R=20\text{V}$ | | | 900 | μA |
| I_R | $V_R=30\text{V}$ | | | 1.5 | mA |
| BV_R | $I_R=1.0\text{mA}$ | 40 | | | V |
| V_F | $I_F=100\text{mA}$ | | | 270 | mV |
| V_F | $I_F=500\text{mA}$ | | | 340 | mV |
| V_F | $I_F=1.0\text{A}$ | | | 390 | mV |
| V_F | $I_F=1.5\text{A}$ | | | 420 | mV |
| C_J | $V_R=10\text{V}, f=1.0\text{MHz}$ | | 50 | | pF |

CPD85V-CMPH1-4L

Typical Electrical Characteristics



BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes).
(example: CP211-PART NUMBER-CM)



UNSAWN WAFER

WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



SAWN WAFER ON PLASTIC RING

WR: Full wafer, sawn and mounted on plastic ring,
100% tested with reject die inked.
(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications:
www.centrasemi.com/bdspecs

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

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).

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