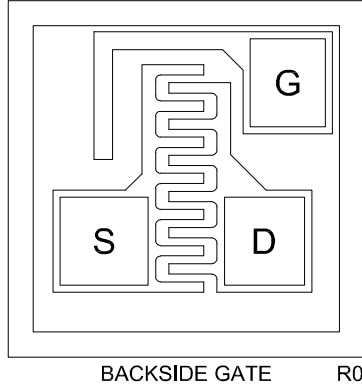


The CP232V-2N5486 is a silicon N-Channel JFET designed for VHF amplifier and mixer applications.



MECHANICAL SPECIFICATIONS:

| | |
|-------------------------|------------------|
| Die Size | 14 x 14 MILS |
| Die Thickness | 7.1 MILS |
| Source Bonding Pad Size | 3.46 x 3.46 MILS |
| Drain Bonding Pad Size | 3.15 x 3.46 MILS |
| Gate Bonding Pad Size | 2.95 x 3.46 MILS |
| Top Side Metalization | Al-Si – 17,000Å |
| Back Side Metalization | Au-As – 12,000Å |
| Scribe Alley Width | 1.97 MILS |
| Wafer Diameter | 5 INCHES |
| Gross Die Per Wafer | 80,859 |

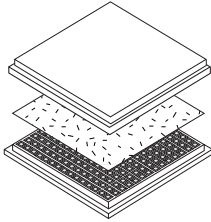
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

| | SYMBOL | | UNITS |
|--|----------------|-------------|------------------|
| Gate-Drain Voltage | V_{GD} | 25 | V |
| Gate-Source Voltage | V_{GS} | 25 | V |
| Drain Current | I_D | 30 | mA |
| Gate Current | I_G | 10 | mA |
| 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 | MAX | UNITS |
|---------------|---|-----|-----|---------------|
| I_{GSS} | $V_{GS}=20\text{V}$ | | 1.0 | nA |
| I_{DSS} | $V_{DS}=15\text{V}$ | 8.0 | 20 | mA |
| BV_{GSS} | $I_G=1.0\mu\text{A}$ | 25 | | V |
| $V_{GS(off)}$ | $V_{DS}=15\text{V}, I_D=10\text{nA}$ | 2.0 | 6.0 | V |
| g_{FS} | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{KHz}$ | 4.0 | 8.0 | mS |
| Y_{os} | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{KHz}$ | | 75 | μS |
| C_{iss} | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | | 5.0 | pF |
| C_{oss} | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | | 2.0 | pF |
| C_{rss} | $V_{DS}=15\text{V}, V_{GS}=0, f=1.0\text{MHz}$ | | 1.0 | pF |
| $R_{e(yis)}$ | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | | 1.0 | mS |
| $R_{e(yos)}$ | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | | 100 | μS |
| $R_{e(yfs)}$ | $V_{DS}=15\text{V}, V_{GS}=0, f=400\text{MHz}$ | 3.5 | | mS |
| NF | $V_{DS}=15\text{V}, V_{GS}=0, R_G=1\text{M}\Omega, f=1.0\text{KHz}$ | | 2.5 | dB |
| NF | $V_{DS}=15\text{V}, I_D=4.0\text{mA}, R_G=1\text{K}\Omega, f=100\text{MHz}$ | | 2.0 | dB |
| NF | $V_{DS}=15\text{V}, I_D=4.0\text{mA}, R_G=1\text{K}\Omega, f=400\text{MHz}$ | | 4.0 | dB |
| G_{PS} | $V_{DS}=15\text{V}, I_D=4.0\text{mA}, f=100\text{MHz}$ | 18 | 30 | dB |
| G_{PS} | $V_{DS}=15\text{V}, I_D=4.0\text{mA}, f=400\text{MHz}$ | 10 | 20 | dB |

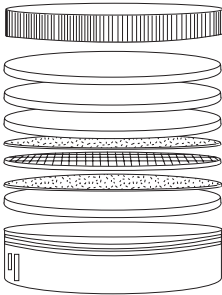
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

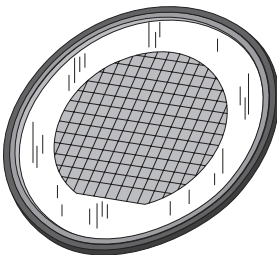
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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

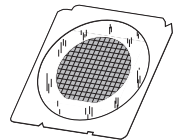
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



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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