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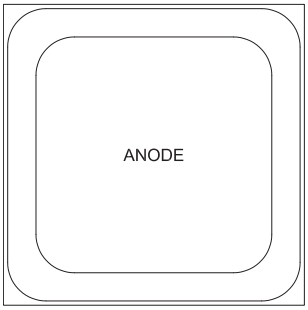
CPD07-CR6A4GPP

General Purpose Rectifier Die

6.0 Amp, 400 Volt

The CPD07-CR6A4GPP is a silicon 6.0 Amp, 400 Volt general purpose rectifier ideal for all types of industrial, consumer, medical, and power supply applications.



BACKSIDE CATHODE R2

MECHANICAL SPECIFICATIONS:

Die Size	100 x 100 MILS
Die Thickness	8.7 MILS
Anode Bonding Pad Size	78.8 x 78.8 MILS
Top Side Metalization	Ni/Au – 4,500Å/1,350Å
Back Side Metalization	Ni/Au – 5,000Å/1,350Å
Scribe Alley Width	4.5 MILS +/- 0.6 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	1,056

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Peak Repetitive Reverse Voltage	V_{RRM}	400	V
DC Blocking Voltage	V_R	400	V
RMS Reverse Voltage	$V_{R(RMS)}$	280	V
Non-Repetitive Peak Reverse Voltage (Halfwave, single phase, 60Hz peak)	V_{RSM}	480	V
Average Forward Current (T_A=60°C)	I_O	6.0	A
Peak Forward Surge Current, tp=8.3ms	I_{FSM}	400	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C

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

SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_R	V_R=400V		10	μA
V_F	I_F=6.0A		1.0	V
C_J	V_R=0, f=1.0MHz		125	pF

CPD07-CR6A4GPP
Typical Electrical Characteristics

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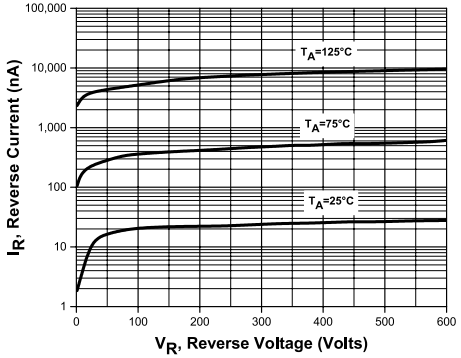
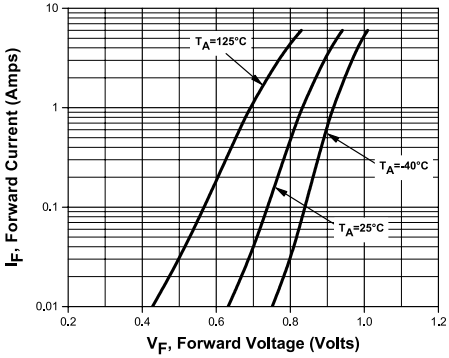
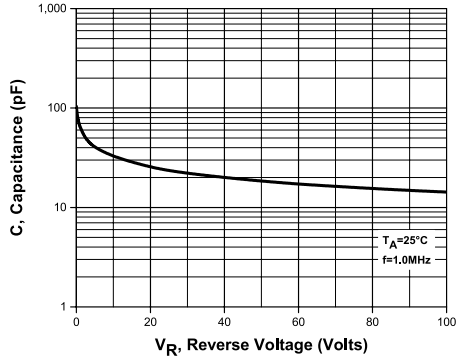
Leakage Current



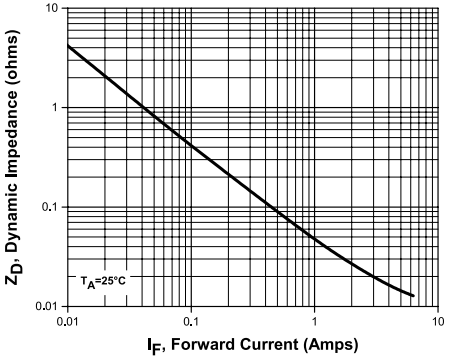
Forward Voltage



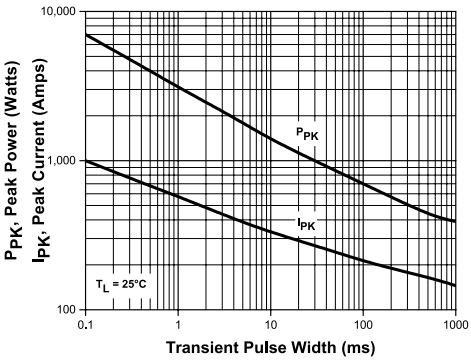
Capacitance



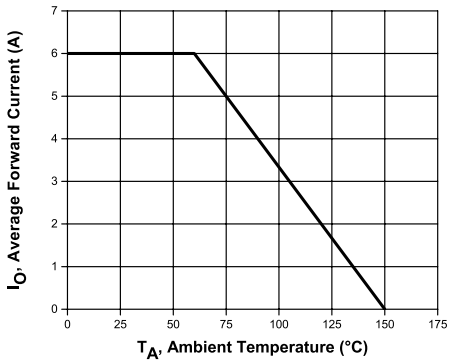
Forward Dynamic Impedance



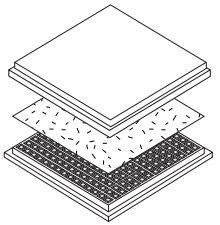
Transient Peak Power and Peak Current Capacity



Current Derating



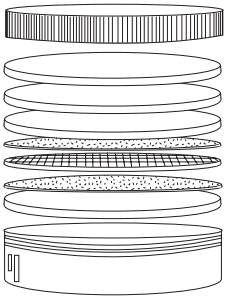
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

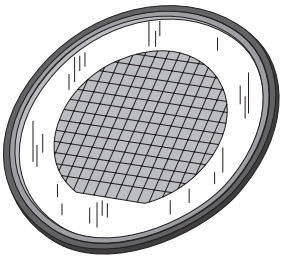
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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)



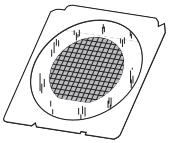
UNSAWN WAFER

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.centralsemi.com/bdspecs

R2 (3-April 2017)

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).

CONTACT US

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