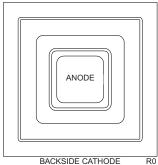


CPD91V-CMPD6001 **Switching Diode Die** 250mA, 75 Volt

The CPD91V-CMPD6001 is a silicon epitaxial planar diode designed for switching applications requiring extremely low leakage.



MECHANICAL SPECIFICAT	IONS:	

Die Size	11 x 11 MILS
Die Thickness	7.1 MILS
Anode Bonding Pad Size	3.35 x 3.35 MILS
Top Side Metalization	AI - 15,000Å
Back Side Metalization	Au-As - 9,000Å
Scribe Alley Width	2.2 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	137,880

BACKSIDE CATHODE

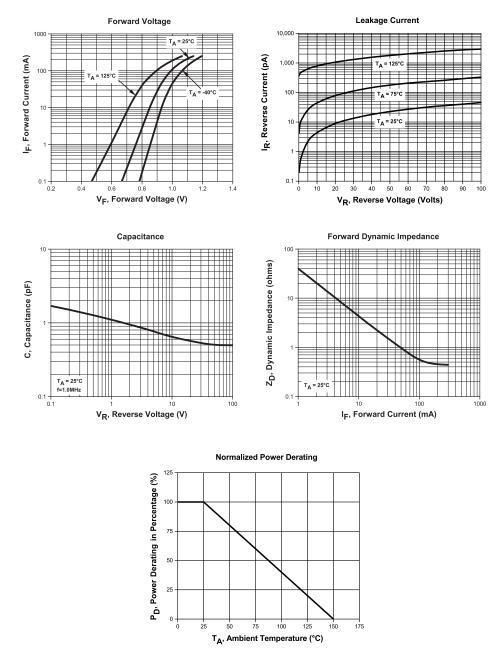
MAXIMUM R	ATINGS: (T _A =25°C)	SYMBOL		UNITS				
Continuous Reverse Voltage		VR	75	V				
Peak Repetitive Reverse Voltage		V _{RRM}	100	V				
Continuous Forward Current		١ _F	250	mA				
Peak Repetitive Forward Current		IFRM	250	mA				
Peak Forward Surge Current, tp=1.0µs		IFSM	4.0	А				
Peak Forward Surge Current, tp=1.0s		IFSM	1.0	А				
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C				
ELECTRICAL CHARACTERISTICS: (T _A =25°C unless otherwise noted)								
symbol I _R	TEST CONDITIONS V _R =75V	MIN	MAX 500	UNITS pA				
BVR	I _R =100μA	100		V				
V _F	I _F =1.0mA		0.85	V				
V _F	I _F =10mA		0.95	V				
VF	I _F =100mA		1.1	V				
СJ	V _R =0, f=1.0MHz		2.0	pF				
t _{rr}	I _R =I _F =10mA, I _{rr} =1.0mA, R _L =100Ω	2	3.0	μs				

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CPD91V-CMPD6001 Typical Electrical Characteristics



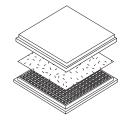
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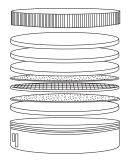
BARE DIE PACKING OPTIONS





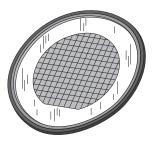
BARE DIE IN TRAY (WAFFLE) PACK

- 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

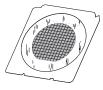
WN: Full wafer, unsawn, 100% tested with reject die inked. (example: CP211-PART NUMBER-WN)



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.



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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

- 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

CONTACT US

Corporate Headquarters & Customer Support Team

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