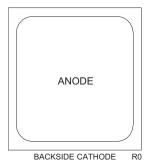


CPD16-CMR1U-06M

Ultra Fast Rectifier Die 1.0 Amp, 600 Volt

The CPD16-CMR1U-06M is a silicon 1.0 Amp, 600 Volt ultra fast recovery rectifier ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

MEGHANICAL OF ECH TOATIONS.		
Die Size	51 x 51 MILS	
Die Thickness	14 MILS	
Anode Bonding Pad Size	34 x 34 MILS	
Top Side Metalization	Ni/Au – 5,000Å/2,000Å	
Back Side Metalization	Ni/Au – 5,000Å/2,000Å	
Scribe Alley Width	2.0 MILS	
Wafer Diameter	4 INCHES	
Gross Die Per Wafer	4,250	

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}	600	V	
DC Blocking Voltage	V_{R}	600	V	
RMS Reverse Voltage	V _{R(RMS)}	420	V	
Average Forward Current	lo	1.0	Α	
Peak Forward Surge Current, tp=8.3ms	^I FSM	30	Α	
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C	
ELECTRICAL CHARACTERISTICS: (T _A =25°C)				
SYMBOL TEST CONDITIONS	MIN	MAX	UNITS	
I_R V_R =600 V		5.0	μA	
V _F I _F =1.0A		1.4	V	
t_{rr} I_F =0.5A, I_R =1.0A, I_{rr} =0.25A		75	ns	

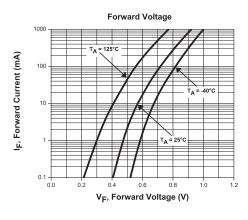
PACKING OPTIONS:

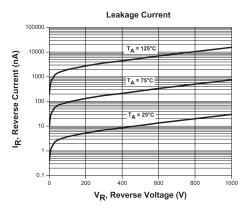
- CPD16-CMR1U-06M-CT: Singulated die in waffle pack; 400 die per tray.
- CPD16-CMR1U-06M-WN: Full wafer, unsawn, 100% tested with reject die inked.
- CPD16-CMR1U-06M-WR: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

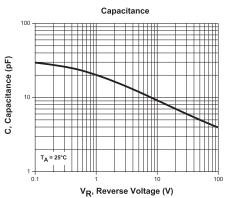
CPD16-CMR1U-06M

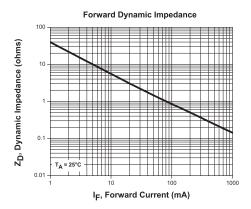
Typical Electrical Characteristics

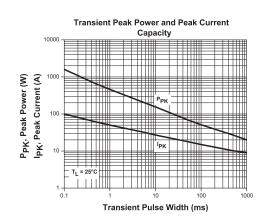


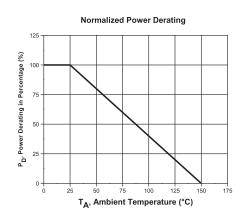








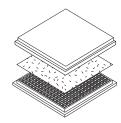




R0 (4-March 2015)

BARE DIE PACKING OPTIONS

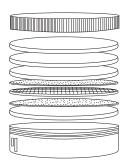




BARE DIE IN TRAY (WAFFLE) PACK

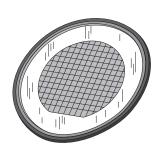
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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)



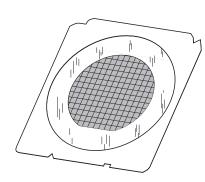
UNSAWN WAFER

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)



SAWN WAFER ON METAL FRAME

WS: Full wafer, sawn and mounted on metal frame, 100% tested with reject die inked. (example: CP211-PART NUMBER-WS)

R0 (7-December 2015)

www.centralsemi.com

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

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com