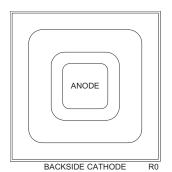


CPD83V-CMPD7000

High Speed Switching Diode Die 0.2 Amp, 100 Volt

The CPD83V-CMPD7000 is a silicon high speed switching diode ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

11 x 11 MILS
7.1 MILS
3.35 x 3.35 MILS
AI – 30,000Å
Au-As – 9,000Å
2.3 MILS
5 INCHES
137,880

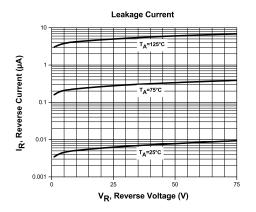
MAXIMUM F	RATINGS: (T _A =25°C)	SYMBOL		UNITS	
Peak Repetitive Reverse Voltage		V_{RRM}	100	V	
Average Forward Current		IO	200	mA	
Peak Forward Surge Current, tp=1.0µs		I _{FSM}	500	mA	
Operating and Storage Junction Temperature		T _J , T _{stg}	-65 to +150	°C	
ELECTRICAL CHARACTERISTICS: (T _A =25°C)					
SYMBOL I _R	TEST CONDITIONS V _R =50V	MIN	MAX 300	UNITS nA	
I_{R}	V _R =100V		500	nA	
BV_R	I _R =100μA	100		V	
V_{F}	I _F =1.0mA	0.55	0.70	V	
VF	I _F =10mA	0.67	0.82	V	
V_{F}	I _F =100mA	0.75	1.10	V	
CJ	V_R =0, f=1.0MHz		2.6	pF	
t _{rr}	I _F =I _R =10mA, I _{rr} =1.0mA, R _L =1000	Ω	4.0	ns	

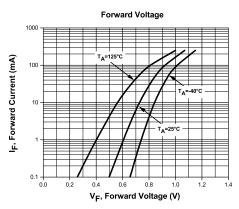
CPD83V-CMPD7000

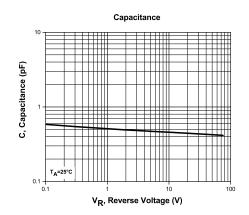
Typical Electrical Characteristics

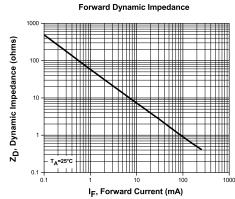


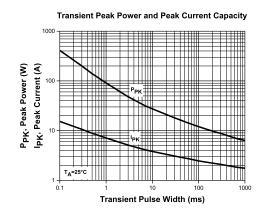
www.centralsemi.com

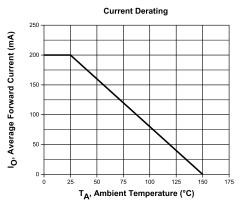












R0 (16-September 2016)

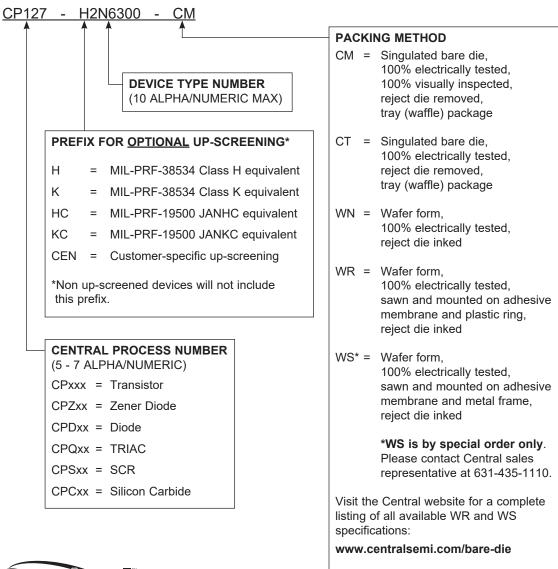
Rethink the Possibilities™ Discretes do Matter™

Bare Die and Wafer Part Numbering & Packing Guide



Bare Die Part Numbering System

This specification defines the method for bare die packing and part number identification.
Example: Bipolar Power NPN Darlington Transistor Die, 2N6300, with optional up-screening to MIL-PRF-38534 Class H equivalent, Tray (Waffle) Package.

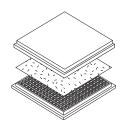




R2 (3-September 2020)

BARE DIE PACKING OPTIONS

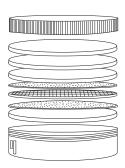




BARE DIE IN TRAY (WAFFLE) PACK

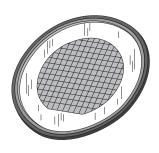
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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

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

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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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