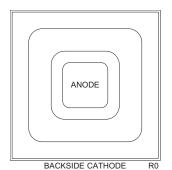


CPD83V-1N4148

High Speed Switching Diode Die 0.15 Amp, 100 Volt

4.0

The CPD83V-1N4148 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 RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	V
Peak Working Reverse Voltage	V_{RWM}	75	V
Average Forward Current	IO	150	mA
Continuous Forward Current	ΙF	200	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	2.0	Α
Operating and Storage Junction Temperature	T _I , T _{eta}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C) UNITS SYMBOL TEST CONDITIONS MAX MIN V_R=20V 25 I_R nΑ I_R=1.0mA 100 ٧ BV_R BV_R I_R=100μA 75 ٧ I_F=10mA 1.0 ٧ V_{F} C_J $V_R=0$, f=1.0MHz4.0 pF

 V_R =6.0V, I_F =10mA, I_{rr} =1.0mA, R_L =100 Ω

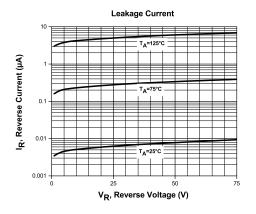
ns

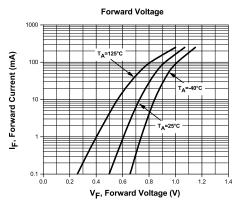
CPD83V-1N4148

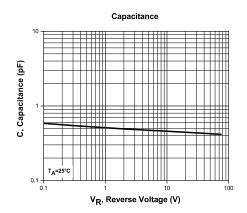
Typical Electrical Characteristics

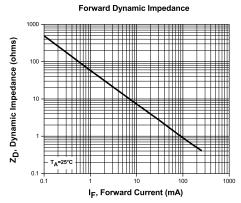


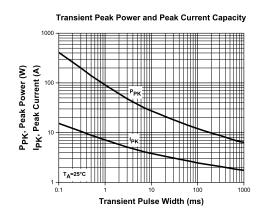
www.centralsemi.com

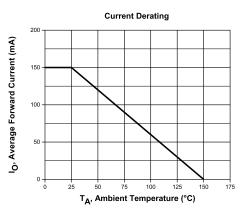








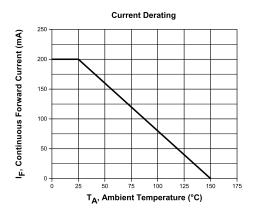




R1 (16-September 2016)

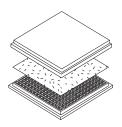
CPD83V-1N4148Typical Electrical Characteristics





BARE DIE PACKING OPTIONS

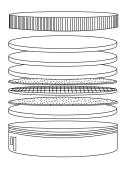




BARE DIE IN TRAY (WAFFLE) PACK

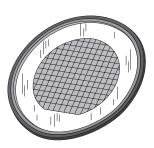
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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 guick 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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