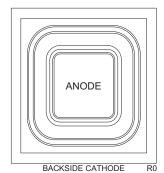


CPD80V-1N3070

Switching Diode Die 0.2 Amp, 175 Volt

The CPD80V-1N3070 is a 0.2 Amp, 175 Volt silicon switching diode ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

Die Size	16.1 x 16.1 MILS
Die Thickness	7.1 MILS
Anode Bonding Pad Size	8.3 x 8.3 MILS
Top Side Metalization	AI – 30,000Å
Back Side Metalization	Au-As – 9,000Å
Scribe Alley Width	1.97 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	65,400

MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Peak Repetitives Reverse Voltage	V_{RRM}	175	V
Peak Working Reverse Voltage	V_{RWM}	175	V
Average Forward Current	IO	200	mA
Continuous Forward Current	ΙF	500	mA
Peak Repetitive Forward Current	I _{FRM}	600	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	4.0	Α
Peak Forward Surge Current, tp=1.0s	I _{FSM}	1.0	Α
Operating and Storage Junction Temperature	T I. Teta	-65 to +150	°C

ELECTRICAL	_ CHARACTERISTICS:	(T _A =25°C unless otherwise noted)
SYMBOL	TEST CONDITIONS	MIN

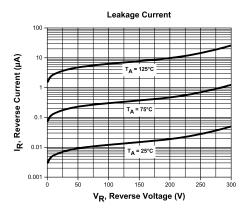
SYMBOL IR	TEST CONDITIONS V _R =175V	MIN	MAX 100	UNITS nA
BVR	I _R =100μA	200		V
V_{F}	I _F =100mA		1.0	V
СЈ	$V_R=0$, f=1.0MHz		5.0	pF
t _{rr}	$I_R = I_F = 30 \text{mA}$, $I_{rr} = 1.0 \text{mA}$, $R_L = 100 \Omega$		50	ns

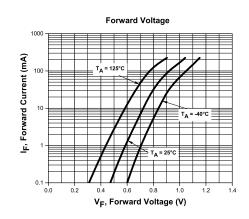
CPD80V-1N3070

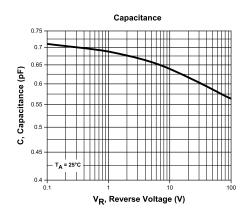
Typical Electrical Characteristics

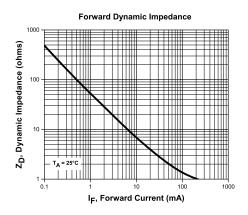


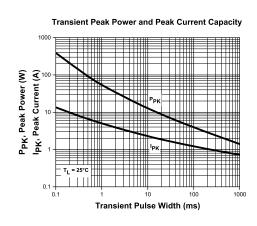
www.centralsemi.com

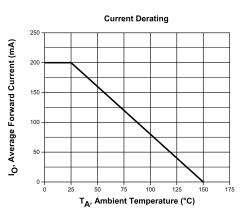








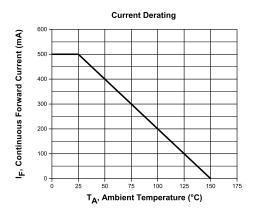




R1 (30-November 2016)

CPD80V-1N3070Typical Electrical Characteristics





BARE DIE PACKING OPTIONS

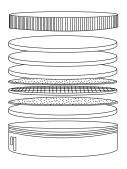




BARE DIE IN TRAY (WAFFLE) PACK

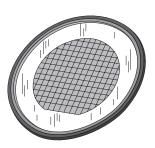
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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 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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