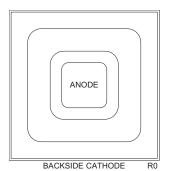


CPD83V-BAS16

High Speed Switching Diode Die 0.15 Amp, 75 Volt

The CPD83V-BAS16 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}	75	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 _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

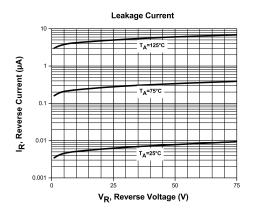
SYMBOL I _R	V _R =75V	MIN	MAX 1.0	UNITS μΑ
V_{F}	I _F =1.0mA		0.715	V
V_{F}	I _F =10mA		0.855	V
V_{F}	I _F =50mA		1.0	V
V_{F}	I _F =150mA		1.25	V
CJ	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	V _R =6.0V, I _F =10mA, I _{rr} =1.0mA, F	R _L =100Ω	6.0	ns

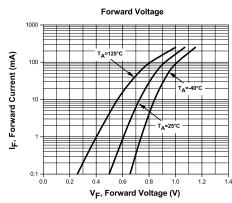
CPD83V-BAS16

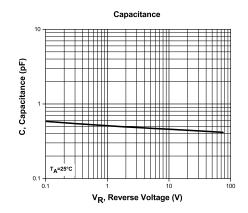
Typical Electrical Characteristics

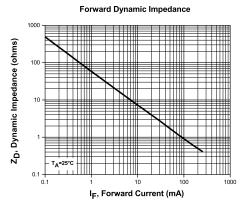


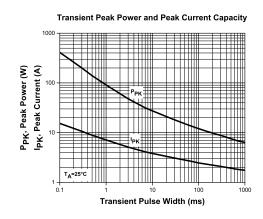
www.centralsemi.com

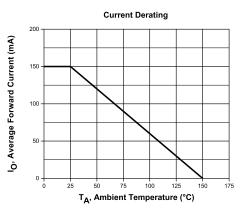








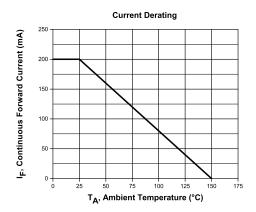




R0 (16-September 2016)

CPD83V-BAS16Typical Electrical Characteristics





BARE DIE PACKING OPTIONS

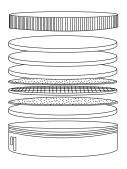




BARE DIE IN TRAY (WAFFLE) PACK

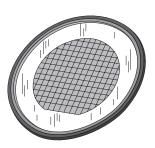
CT: Singulated die in tray (waffle) pack. (example: CP211-PART NUMBER-CT)

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

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

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