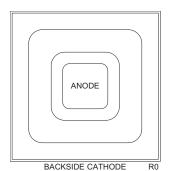


CPD83V-1N4148

High Speed Switching Diode Die 0.15 Amp, 100 Volt

The CPD83V-1N4148 is a silicon high speed switching diode ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

Die Size	11 x 11 MILS
Die Thickness	7.1 MILS
Anode Bonding Pad Size	3.35 x 3.35 MILS
Top Side Metalization	AI – 30,000Å
Back Side Metalization	Au-As – 9,000Å
Scribe Alley Width	2.3 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	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 _J , T _{sta}	-65 to +150	°C

BV_R	I _R =100μA	75	V
V_{F}	I _F =10mA	1.0	V
CJ	V _R =0, f=1.0MHz	4.0	pF
t _{rr}	V_R =6.0V, I_F =10mA, I_{rr} =1.0mA, R_L =100 Ω	4.0	ns

UNITS

nΑ

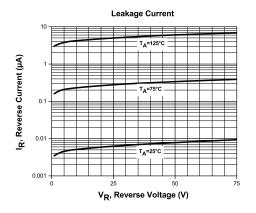
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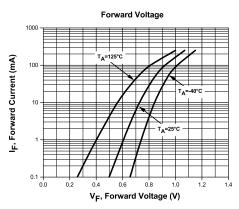
CPD83V-1N4148

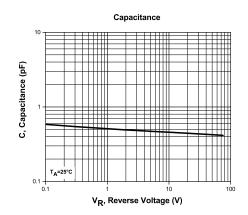
Typical Electrical Characteristics

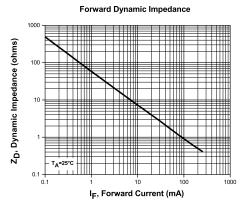


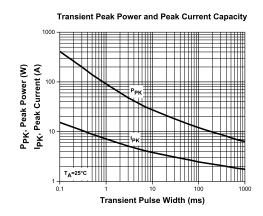
www.centralsemi.com

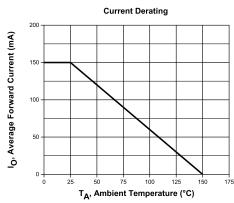








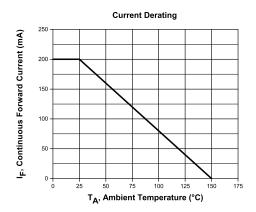




R1 (16-September 2016)

CPD83V-1N4148Typical Electrical Characteristics





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

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