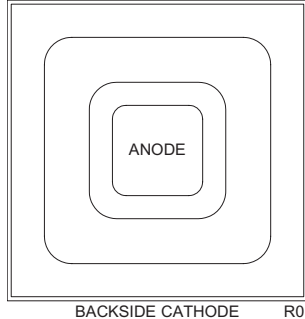


CPD83V-1N4148

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	Al – 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)

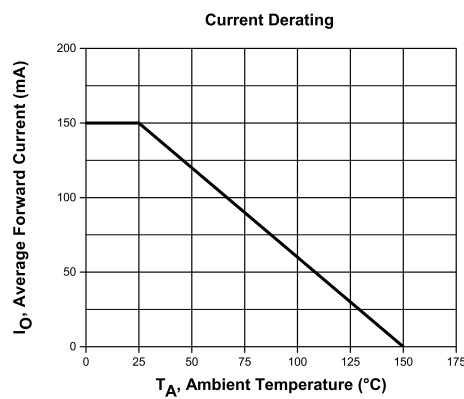
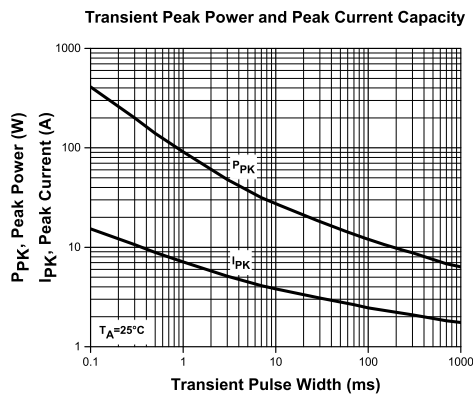
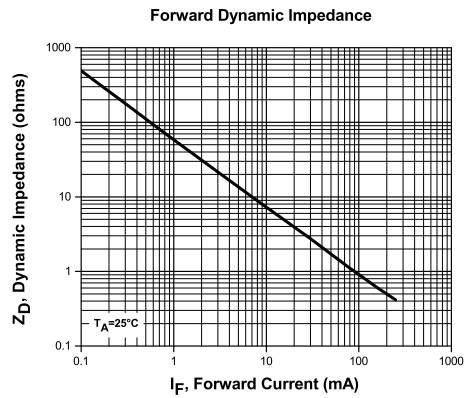
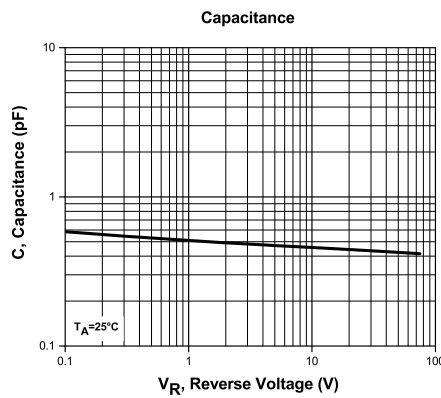
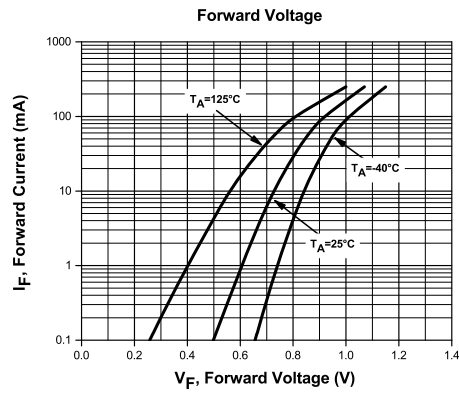
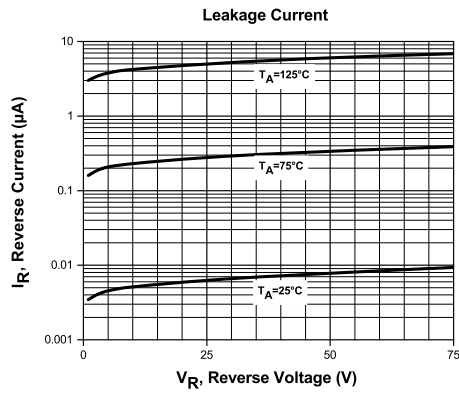
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Peak Working Reverse Voltage	V _{RWM}	75	V
Average Forward Current	I _O	150	mA
Continuous Forward Current	I _F	200	mA
Peak Forward Surge Current, tp=1.0µs	I _{FSM}	2.0	A
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =20V		25	nA
BV _R	I _R =1.0mA	100		V
BV _R	I _R =100µA	75		V
V _F	I _F =10mA		1.0	V
C _J	V _R =0, f=1.0MHz		4.0	pF
t _{rr}	V _R =6.0V, I _F =10mA, I _{rr} =1.0mA, R _L =100Ω		4.0	ns

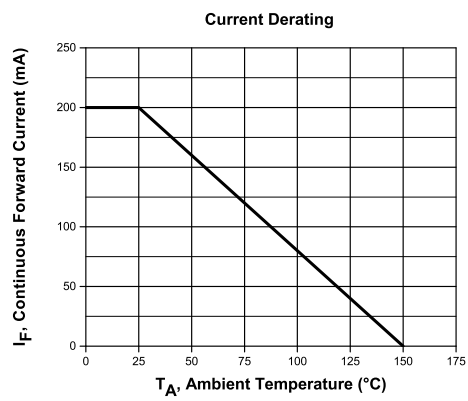
CPD83V-1N4148

Typical Electrical Characteristics



CPD83V-1N4148

Typical 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

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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