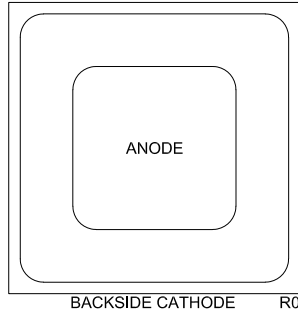


CPD16-CMR1U-06M

Ultra Fast Rectifier Die

1.0 Amp, 600 Volt

The CPD16-CMR1U-06M is a silicon 1.0 Amp, 600 Volt ultra fast recovery rectifier ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

Die Size	51 x 51 MILS
Die Thickness	14 MILS
Anode Bonding Pad Size	34 x 34 MILS
Top Side Metalization	Ni/Au – 4,500Å/1,000Å
Back Side Metalization	Ni/Au – 5,000Å/1,000Å
Scribe Alley Width	3.0 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	4,250

MAXIMUM RATINGS: (T_A=25°C)

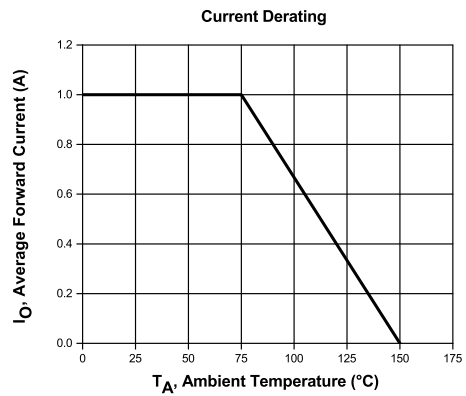
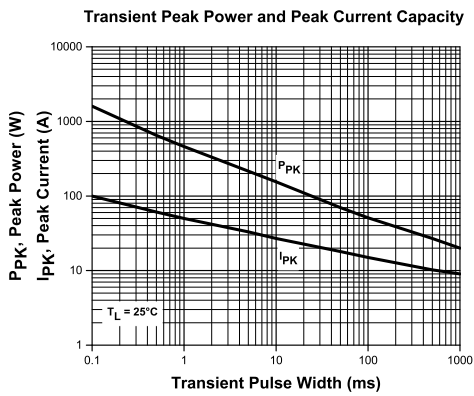
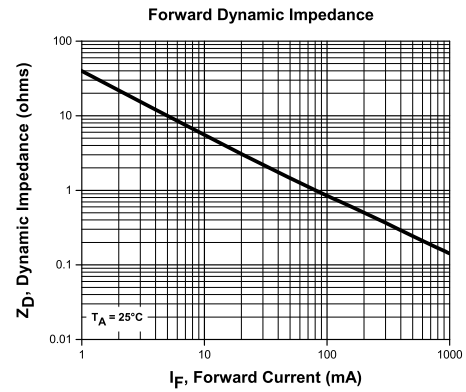
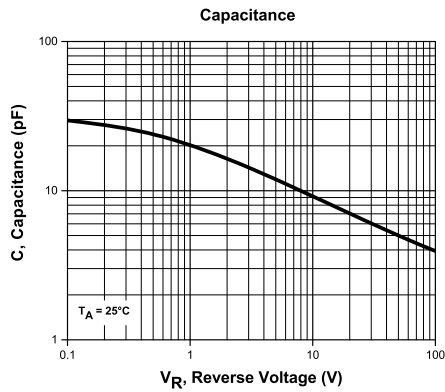
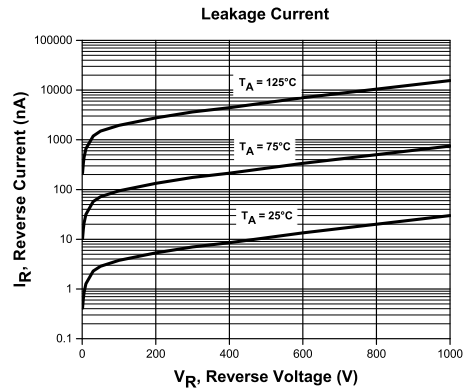
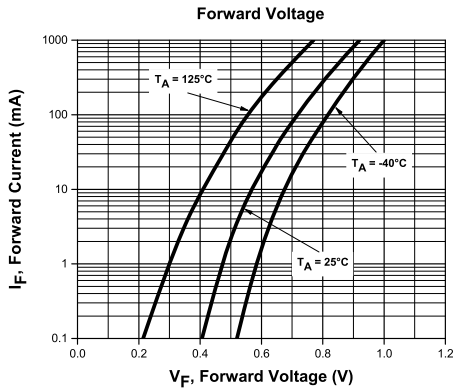
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	600	V
DC Blocking Voltage	V _R	600	V
RMS Reverse Voltage	V _{R(RMS)}	420	V
Average Forward Current (T _A =75°C)	I _O	1.0	A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	30	A
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _R	V _R =600V		5.0	µA
V _F	I _F =1.0A		1.4	V
C _J	V _R =0, f=1.0MHz		40	pF
t _{rr}	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A		75	ns

CPD16-CMR1U-06M

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

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