

Excellent Integrated System Limited

Stocking Distributor

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[Central Semiconductor Corp](#)
[CPD76X-1N5817-CT20](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

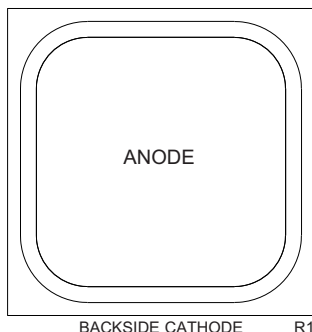


CPD76X-1N5817

Schottky Rectifier Die

1.0 Amp, 20 Volt

The CPD76X-1N5817 is a silicon 1.0 Amp, 20 Volt Schottky rectifier ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

Die Size	32 x 32 MILS
Die Thickness	5.9 MILS
Anode Bonding Pad Size	27 x 27 MILS
Top Side Metalization	Al – 20,000Å
Back Side Metalization	Au – 9,000Å
Scribe Alley Width	2.36 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	16,276

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	V
DC Blocking Voltage	V_R	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Forward Current	I_O	1.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}	25	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise)

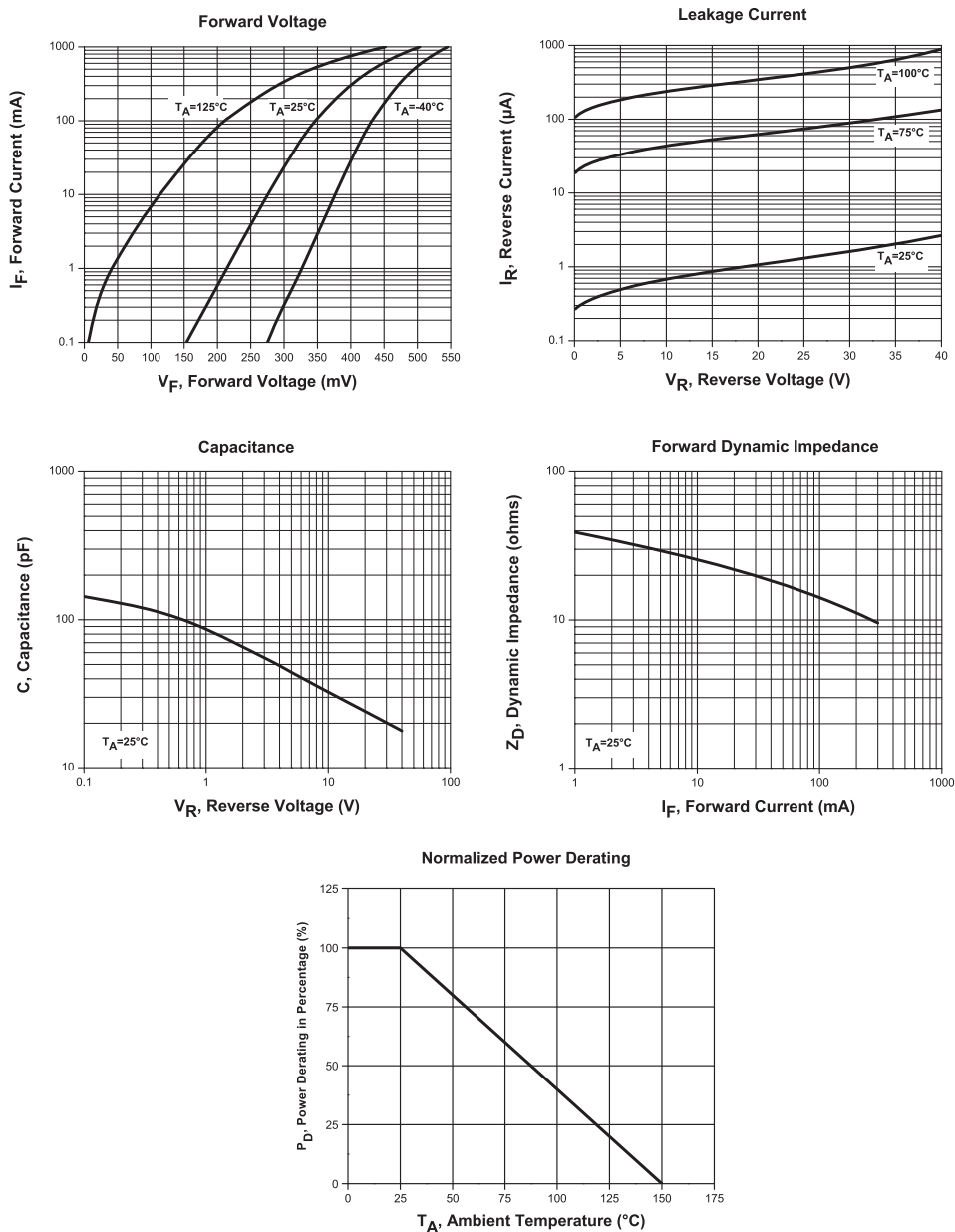
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=20\text{V}$		1.0	mA
I_R	$V_R=20\text{V}, T_A=100^\circ\text{C}$		10	mA
V_F	$I_F=0.1\text{A}$		320	mV
V_F	$I_F=1.0\text{A}$		450	mV
V_F	$I_F=3.1\text{A}$		750	mV

PACKING OPTIONS:

- CPD76X-1N5817-CT: Singulated die in waffle pack; 400 die per tray.
- CPD76X-1N5817-WN: Full wafer, unsawn, 100% tested with reject die inked.
- CPD76X-1N5817-WR: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

CPD76X-1N5817

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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