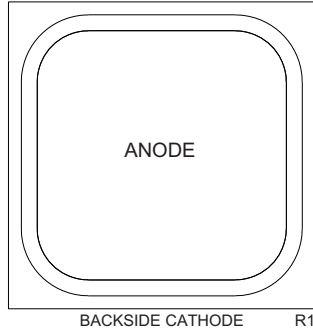


CPD76X-1N5817

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

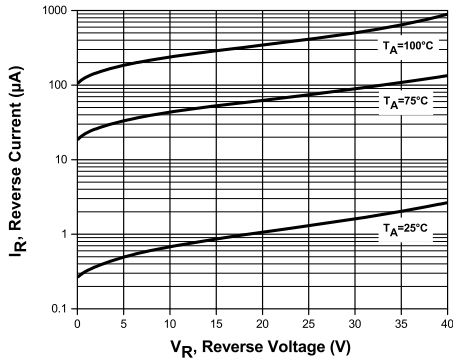
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	V
DC Blocking Voltage	V_R	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Forward Current ($T_A=100^\circ\text{C}$)	I_O	1.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}	25	A
Operating and 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
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
C_J	$V_R=0, f=1.0\text{MHz}$		300	pF

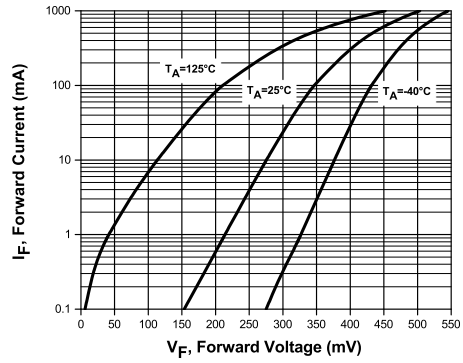
CPD76X-1N5817

Typical Electrical Characteristics

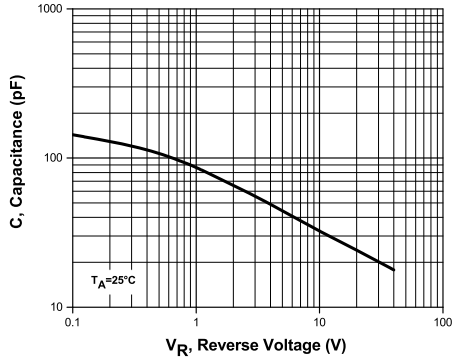
Leakage Current



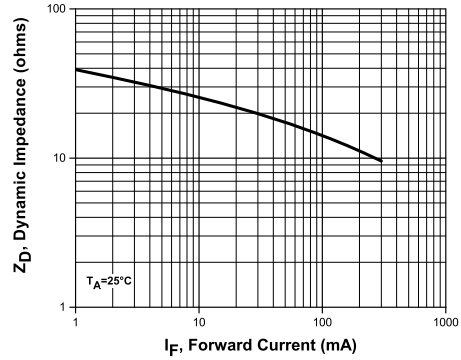
Forward Voltage



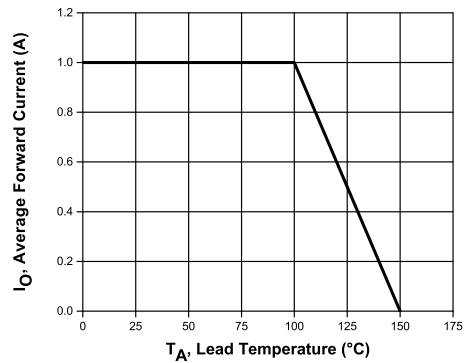
Capacitance



Forward Dynamic Impedance



Current Derating



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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