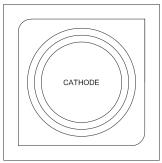


# CPZ35R-CMATVS3V3

# Uni-Directional TVS Die 3.3 Volt

The CPZ35R-CMATVS3V3 is a silicon uni-directional transient voltage suppressor designed for low leakage and fast response against ESD spikes.



## **MECHANICAL SPECIFICATIONS:**

Die Size	10.2 x 10.2 MILS
Die Thickness	3.9 MILS
Cathode Bonding Pad Size	7.0 MILS DIAMETER
Top Side Metalization	AI – 30,000Å
Back Side Metalization	Au – 12,000Å
Scribe Alley Width	1.97 MILS
Wafer Diameter	5 INCHES
Gross Die Per Wafer	163,034

BACKSIDE ANODE R

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Electrical Fast Transient (IEC 61000-4-4) (5x50ns)	EFT	40	Α
ESD Voltage (IEC 61000-4-2, Air)	$V_{ESD}$	30	kV
ESD Voltage (IEC 61000-4-2, Contact)	$V_{ESD}$	30	kV
Operating and Storage Junction Temperature	$T_{.l}, T_{sta}$	-55 to +150	°C

# **ELECTRICAL CHARACTERISTICS:** ( $T_A$ =25°C) $V_F$ =0.9V MAX @ $I_F$ =10mA (for all types)

	Maximum Minimu Reverse Breakdo Stand-off Voltage VRWM VBR @		down	Maximum Reverse Leakage Current IR @ VRWM	Maximum Clamping Voltage (8x20µs) V <sub>C</sub> @ Ipp		Typical TLP Clamping Voltage (Note 1) VCL @ IPP		Typical Dynamic Resistance (Note 1) RDYN	Typical Junction Capacitance @ 0V Bias CJ
Ì	V	V	mA	μА	V	Α	V	Α	Ω	pF
Ì	3.3	5.0	1.0	2.5	11	7.0	6.0	11.3	0.5	45
	3.3	5.0	5.0	2.5	2.5	7.0	3.0	5.3		

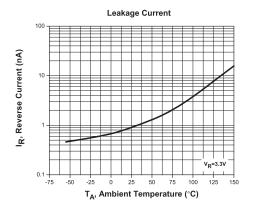
Note 1: Transmission Line Pulse (TLP) conditions:  $Z_0$ =50 $\Omega$ , tp=100ns

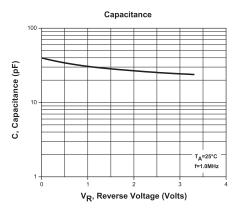
# **CPZ35R-CMATVS3V3**

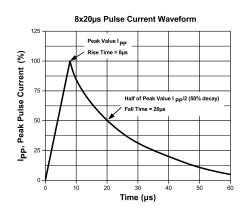
# **Typical Electrical Characteristics**

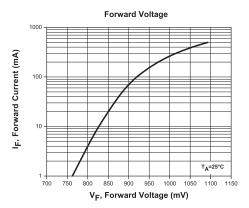


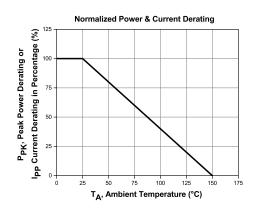
www.centralsemi.com





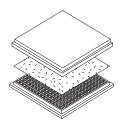






## BARE DIE PACKING OPTIONS

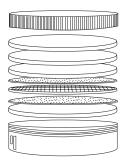




# BARE DIE IN TRAY (WAFFLE) PACK

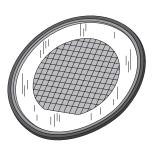
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes). (example: CP211-PART NUMBER-CM)



## **UNSAWN WAFER**

WN: Full wafer, unsawn, 100% tested with reject die inked. (example: CP211-PART NUMBER-WN)



#### SAWN WAFER ON PLASTIC RING

**WR**: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications: www.centralsemi.com/bdspecs

## **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 guick ship samples (2<sup>nd</sup> 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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