## Atlas ZEN

Zener diode analyser

Model: ZEN50



electronic design Ita

**PRODUCT BRIEF** 

## **Unique Instrument**

The *Atlas ZEN* is a unique instrument that allows you to test components that were previously very tricky to test.

Now Zener diodes, avalanche diodes, transient suppressors, LEDs (even long LED strings) can be easily tested.

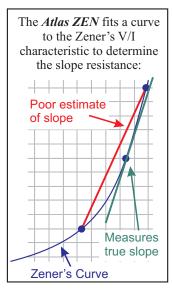
The *Atlas ZEN* generates short pulses of current (selectable from 2mA up to 15mA) with voltages of up to 50V. So even fairly high voltage Zeners can be properly tested.

The voltage and test current are displayed along with the component's slope resistance (sometimes known as dynamic impedance).

Test pulses are kept short to minimise any temperature rise of the component under test and also to provide very long battery life from the single Alkaline AAA cell (included).

## **Features**

- Measure Zener voltage up to 50V.
- Selectable test currents: 2mA, 5mA, 10mA and 15mA.
- Measure slope resistance.
- Also tests LEDs, VDRs, TVSs.
- Narrow test pulses to minimise temperature rise.
- Long life from single AAA cell.
- Gold plated crocodile probes.
- Continuous measurement display (updated at 3Hz).
- Supplied with battery and guide.
- Ultra-slim and compact design.





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Parameter	Min.	Тур.	Max.	Notes
Zener voltage range (Vz)	0.0V		50.0V	
Nominal test currents (Iz)	2mA	2mA, 5mA, 10mA, 15mA		
Set test current accuracy		±1% ±0.2mA		
Zener voltage accuracy				
Zener voltage resolution	20mV		40mV	
O/C test voltage (pulsed)			60V	
S/C test current (pulsed)			35mA	
Test current duty cycle	0.1%	1%	5%	
External abuse voltage			±50V	
Slope resistance range	Ω0		8000Ω	Iz=2mA
	$\Omega$ 0		3200Ω	Iz=5mA
	$\Omega$ 0		1600Ω	Iz=10mA
D: 1 1 21	0Ω		1000Ω	Iz=15mA
Displayed Slope		5Ω		Iz=2mA
resistance resolution		2Ω		Iz=5mA
		1Ω 1Ω		Iz=10mA Iz=15mA
C1		±1% ±10Ω		Iz=15mA Iz=2mA
Slope resistance accuracy		$\pm 1\% \pm 1002$ $\pm 1\% \pm 4\Omega$		Iz=2mA Iz=5mA
		$\pm 1\% \pm 2\Omega$		Iz=10mA
		$\pm 1\% \pm 2\Omega$ $\pm 1\% \pm 2\Omega$		Iz=10mA Iz=15mA
Slope res. current span	(Iz-50%) to (Iz+50%)			IZ-13IIIA
Slope resistance	Differentiation of curve that fits:			
measurement method	(Iz-50%, $Vz_1$ ), (Iz, $Vz_2$ ) and (Iz+50%, $Vz_3$ )			
Measurement rate	(12-3070, 72	3Hz	12 + 30 /0, v 23)	
Auto-off period		60 seconds		
Battery type	AAA Alkaline			
Battery voltage range	0.9V	7 th th th thanne	1.6V	
Low battery warning	$1.0V \pm 0.05V$			
Dimensions (excl. leads)	103x70x20mm			1
Operating temperature	10°C	TODAY, SAZOHIM	40°C	

Please note that specifications of our products are subject to change without notice. E&OE.

## **Peak Electronic Design Limited**

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