

Atlas SCR

Thyristor and Triac Analyser

Model: SCR100

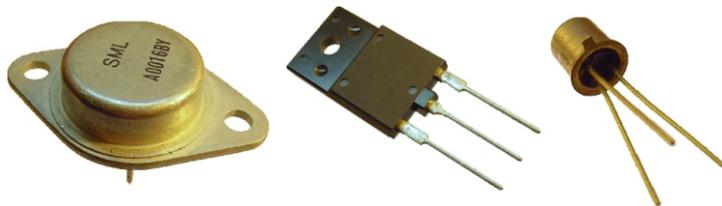
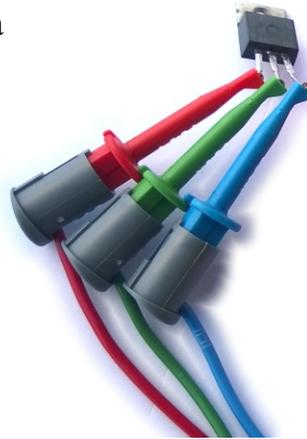
PEAK

electronic design ltd

PRODUCT BRIEF

Features

- Connect any way round.
- Identifies if your component is a Thyristor or Triac.
- Automatic Pinout identification.
- Gate sensitivity checking from 100 μ A to 90mA.
- Gate voltage measurement.
- Latching/Holding test current up to 100mA.
- Shorted junction detection.
- Auto power on and power off.
- Ultra-slim, compact and robust design.
- Single AAA Alkaline cell (included).



Thyristors and triacs vary a great deal in their requirements for gate trigger currents, some can be triggered with just 50 μ A, others may need higher test currents. This instrument can generate gate test currents up to 90mA. The latching and holding test current is nominally 100mA.

Just connect your thyristor or triac any way round and press "test". It couldn't be easier.

The *Atlas SCR* will detect if your component is a Triac or Thyristor (SCR), determine its pinout, determine the gate sensitivity and then display its findings.

Test currents are applied for very short durations, typically less than 200 μ S, thereby minimising the risk of damage to your sensitive components.

The *Atlas SCR* is suitable for many different varieties of Triac and SCR. It is not suitable however for devices that require a gate current of more than 90mA or a latching/holding current of more than 100mA. High power devices in bolt, disc, capsule, stack and module formats typically require higher currents than the *Atlas SCR* can produce.

Example display for a typical triac and thyristor:

Triac Display	SCR Display
Triac detected Details follow +	SCR detected Details follow +
RED GREEN BLUE MT1 MT2 Gate +	RED GREEN BLUE Anod Gate Cath +
Trigger current I _s =75 to 90mA +	Trigger current I _s =0.1 to 1mA +
Gate voltage V _g =0.76V @ 90mA+	Gate voltage V _g =0.71V @ 1mA +
Tested at a load current of 0.1A	Tested at a load current of 0.1A

Technical Specifications at 25°C

Parameter	Min	Typ	Max
Peak test current		100mA	120mA
Peak test voltage		12.0V	12.5V
Gate test current	100 μ A		90mA
Hold test current	90mA		120mA
Battery voltage range	0.8V	1.5V	
Dimensions	103 x 70 x 20mm		

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