

# Auriga PHD3100 1200 V, 100 A Pulser Head Series **BETA**

## Leading the Way for High-Voltage Transistor Characterization for Power Electronics

- High voltage / high power capability – 1200 V, 100 A, 5000 W
- Dynamic on-resistance accuracy – optimized for 10 mΩ or less
- Unsurpassed current resolution – less than 0.01% of maximum current
- Short pulses and fast rise/fall times – supports isothermal through self-heating testing

The PHD3100 supports the industry's most advanced high-powered devices. Leveraging recent breakthroughs in component and pulser-circuit technology provides unparalleled speed, accuracy, and resolution. Dynamic on-resistance of the latest transistors can now be measured with precision.

The PHD3100 operates with the AU4850 Pulsed IV/RF Characterization System; this compact and versatile test solution accurately simulates real life and delivers unparalleled performance, capturing measurements with incredible accuracy and speed.

PRELIMINARY SPECIFICATIONS	
PARAMETER:	BETA Performance
Max Voltage	1200 V
Max Current Pulsed	100.0 A
Max Current DC	1.25 A
Typical Error	0.01% of max current
Max Power	> 5000 W
Min Pulse Width	< 500 ns
Max Pulse Width	1000 μs
Current Resolution	0.01% of max current
Voltage Resolution	15 bits
Max Pulse Repetition Frequency (PRF)	28 KHz



**Gallium Nitride (GaN)**  
**Silicon Carbide (SiC)**  
**Graphene**  
**LDMOS**

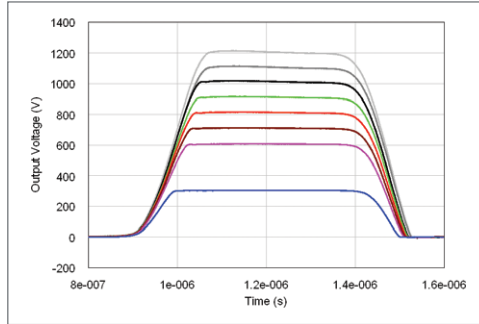
### Application Areas

- Aerospace and defense
- Automotive and transportation
- Battery, energy and smart grid
- Communication
- Computer and peripherals
- Consumer appliances
- Displays and video products
- Industrial
- LED and general lighting
- Medical
- Motor control
- Power systems

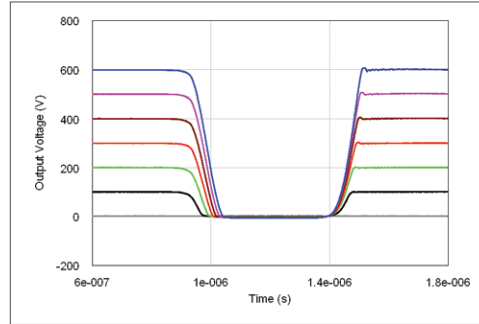


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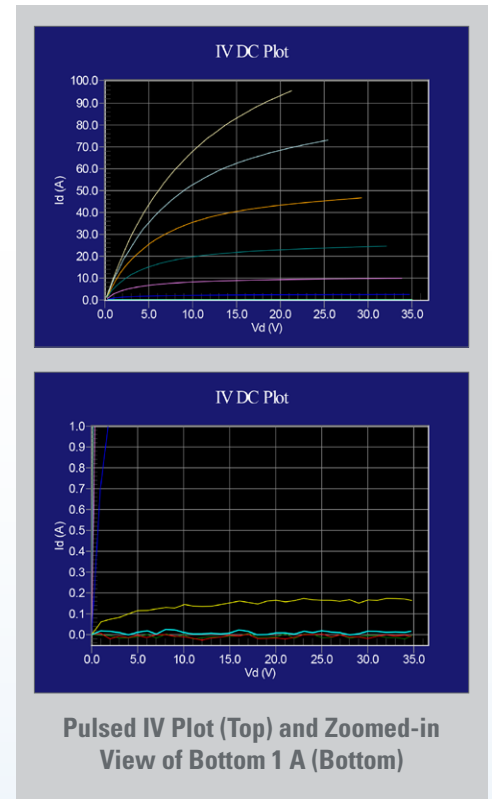
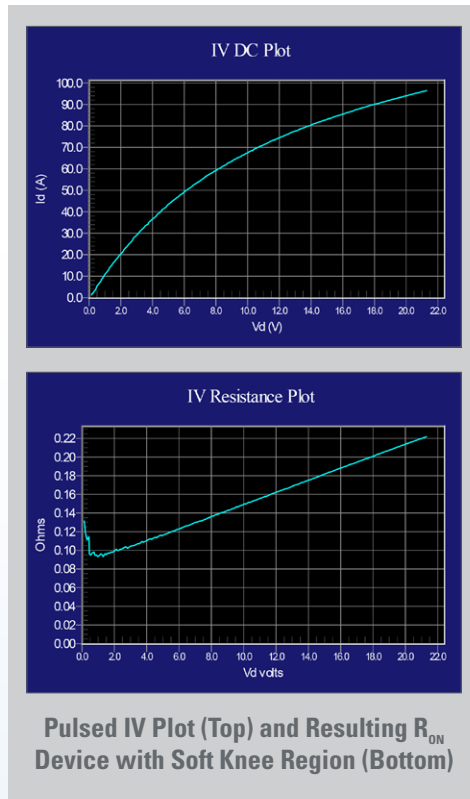
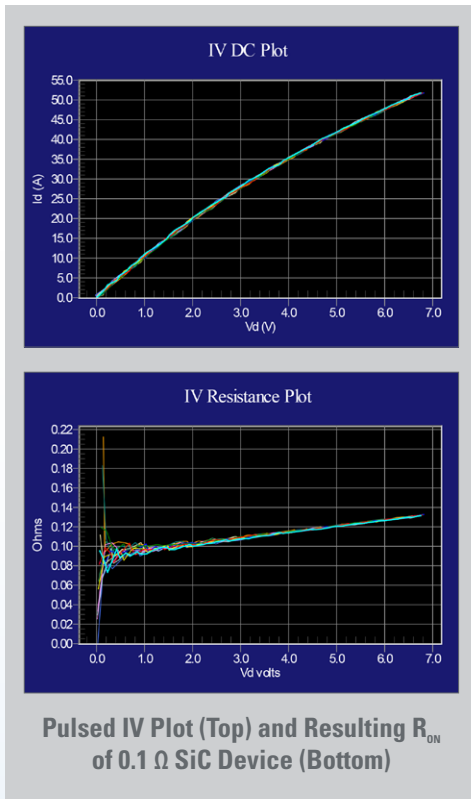
## Voltage and Current Measurements



Output Voltage Versus Time – Rising Edge



Output Voltage Versus Time – Falling Edge



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