

# The WaveFunction Overdrive

Feel the difference with Nanolog Devices™



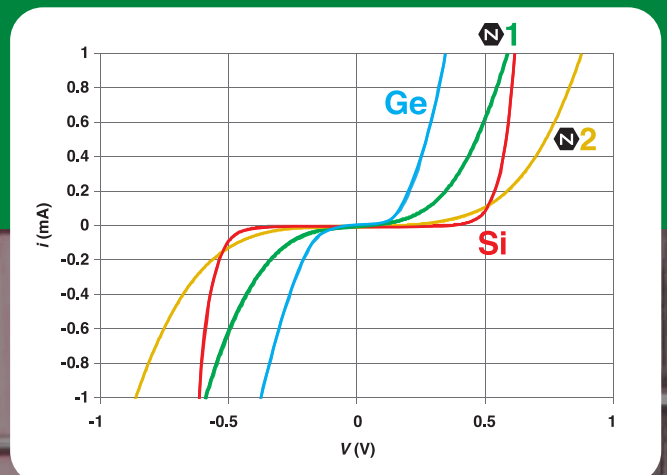
*The WaveFunction Overdrive has a classic but distinctive voice and design, with a lot of tonal flexibility.*

The WaveFunction Overdrive is designed using the latest in **analog** components - Nanolog Devices™ that operate using quantum mechanical tunneling, a process that relies on the decay of electronic WaveFunctions into space.

The WaveFunction Overdrive features passive treble and bass controls, a wide range of gain, and a ton of volume. This allows your tone to shine through with just the right amount of drive and a tuned frequency response. The Nanolog Devices™ provide for a natural overdriven sound with a unique feel that is responsive to the dynamics of your playing.

*Nanolog Devices are carbon-based devices that can function like Si or Ge diode arrays in an audio clipping circuit. Nanolog Devices produce soft onset current-voltage responses.*

Find that perfect sound by easily switching between four different clipping configurations: classic Germanium or Silicon tones, along with two unique Nanolog Devices™. Each of these positions provides for a different level of compression and harmonic content, yielding distinct frequency distributions, as well as a different interaction with your pick attack. Total tonal creative control is yours!



# Specifications

**Input/Output:** ¼" Mono Phone Jack

**Power:** 9 VDC (centre pin negative, most power supplies will work). Draws 11 mA

**Bass Cut:** Turning this up (clockwise) will cut the low frequencies passing through the circuit. When NO bass cut is applied (totally counter-clockwise), there will be a lot of bass response. This can work well for low gain settings, or where a thicker, fatter overdriven tone is desired. However, as the gain is turned up, it may be desirable to turn up the bass cut to reduce the prevalence of "muddiness" in the sound. The bass cut control is interactive with the treble cut and gain knobs.

**Treble Cut:** Turning this up (clockwise) will cut the high frequencies passing through the circuit. When NO treble cut is applied, the full range of high frequencies generated by the source and the overdrive stage will pass through the circuit. Since the overdrive circuit adds harmonic content to the audio signal, as the gain is turned up, it may be desirable to cut more treble. The treble cut is interactive with the bass cut and gain controls.

**Gain:** Controls the amount of overdrive applied to the signal. This knob has a lot of range, and at low settings will add almost no distortion to the signal - perhaps a touch of compression. At higher settings, a heavily overdriven sound will result, and the amount of distortion generated will also depend on the device selected for waveform shaping and on the treble cut and bass cut settings.

**Volume:** Controls the output volume of the pedal, and can be adjusted as needed. With gain at low settings, the volume can be used to boost the signal. As the gain increases, the overall apparent volume output will increase.

**Clip Toggle:** Selects the device that is used to generate overdrive. With Ge, Si, N1, and N2, provides a lot of flexibility in both the tone and feel of the pedal. The Ge setting will provide for a warm, compressed tone. Si will provide a harsher sound, with a more sudden onset of clipping. This setting is useful for cutting through the mix, and will provide the most treble response, and also the most saturation. The N1 setting is a 4 nm Nanolog Device, which provides for a medium amount of gain and compression, but a distinct feel relative to Ge or Si. The N2 is a 6 nm Nanolog Device, providing for more saturation and less compression, with a natural and high level of touch sensitivity.