Oyntaxis micromodular

μADSR

3310·A

Description

μADSR$_{3310\cdot A}$ is an envelope generator micromodule providing the functionality of AS3310 IC with control voltages normalized to 0V ÷ +5V range. The micromodule generates RC shaped ADSR type envelope.

Features

- ADSR envelope
- RC envelope shape
- independent gate and trigger
- adjustable peak level
- control voltage range normalized to 0V ÷ +5V
- LED indicator
- +12V, −12V power supply
- reverse voltage protection

Input/Output

pin	label	description	range [V]
1	▷ ATTACK	attack time	0 ÷ +5
2	▷ DECAY	decay time	0 ÷ +5
3	▷ SUSTAIN	sustain level	0 ÷ +5
4	▷ RELEASE	release time	0 ÷ +5
5	▷ GATE	gate input	0 ÷ +10
6	▷ TRIGGER	trigger input; connect with ▷ GATE if not used separately	0 ÷ +10
7	▷ PEAK	envelope peak level; leave unconnected for +5V peak	−10 ÷ +10
8	◁ OUTPUT	envelope output	0 ÷ +5
9	◁ INV OUTPUT	inverted envelope output	−5 ÷ 0
10	+12V	positive power supply	
11	GND	ground	
12	–12V	negative power supply	

Typical connections

from	⇝	attenuated	⇝	to	comment
+5V	⇝	yes	⇝	▷ ATTACK	manual attack time control
+5V	⇝	yes	⇝	▷ DECAY	manual decay time control
+5V	⇝	yes	⇝	▷ SUSTAIN	manual sustain level control
+5V	⇝	yes	⇝	▷ RELEASE	manual release time control
KBD | GATE	⇝	no	⇝	▷ GATE	gate signal from keyboard
KBD | GATE	⇝	no	⇝	▷ TRIGGER	default trigger – when gate opens
◁ OUTPUT	⇝	yes	⇝	μVCO | ▷ 1 V/Oct	pitch envelope
◁ OUTPUT	⇝	yes	⇝	μVCA | ▷ GAIN	volume envelope
◁ OUTPUT	⇝	yes	⇝	μVCF | ▷ FREQ	filter envelope
◁ INV OUTPUT	⇝	yes	⇝	μVCF | ▷ FREQ	filter envelope/subtractive