Product Overview

NUD3112: Relay Driver, 12 V

For complete documentation, see the data sheet.

This device is used to switch inductive loads such as relays, solenoids incandescent lamps, and small DC motors without the need of a free-wheeling diode. The device integrates all necessary items such as the MOSFET switch, ESD protection, and Zener clamps. It accepts logic level inputs thus allowing it to be driven by a large variety of devices including logic gates, inverters, and microcontrollers.

Features

- Provides a Robust Driver Interface Between D.C. Relay Coil and Sensitive Logic Circuits
- Optimized to Switch Relays of 12 V Rail
- Capable of Driving Relay Coils Rated up to 6.0 W at 12 V
- Internal Zener Eliminates the Need of Free-Wheeling Diode
- Internal Zener Clamp Routes Induced Current to Ground for Quieter Systems Operation
- Low VDS(ON) Reduces System Current Drain

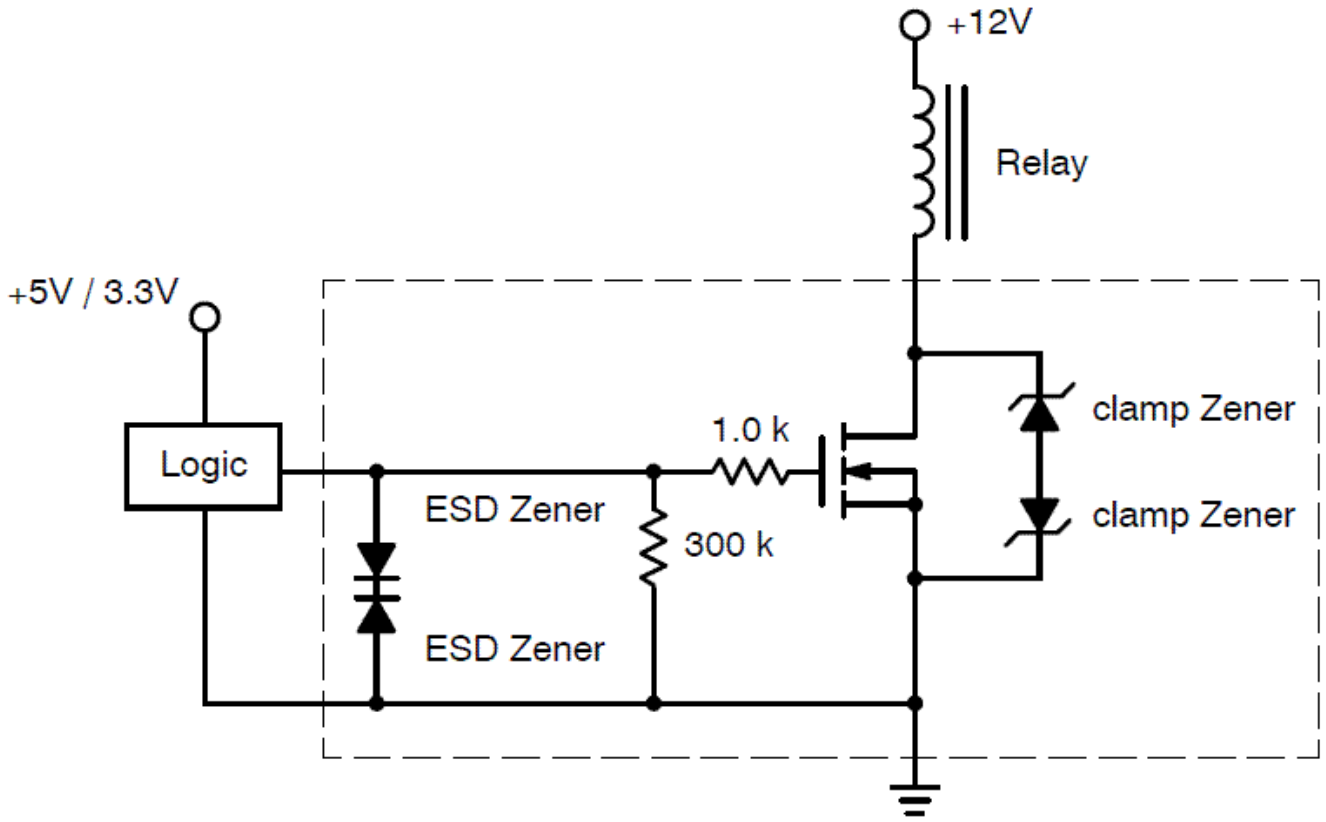
Applications

- Telecom: Line Cards, Modems, Answering Machines, FAX
- Consumer: TVs and VCRs, Stereo Receivers, CD Players, Cassette
- Industrial:Small Appliances, Security Systems, Automated Test Equipment, Garage Door Openers
- Computers and Office: Photocopiers, Printers, Desktop Computers

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Number of Drivers	V_{CC} Max (V)	$V_{(BR)GSS}$ Max (V)	$V_{(BR)DSS}$ Max (V)	I_D Max (A)	$r_{DS(on)}$ Max (Ω)	T_j Max (°C)	Package Type
NUD3112DMT1G	0.1925	Pb-free Halide free	Active	2	14	6	14	0.5	0.9	150	SC-74
NUD3112LT1G	0.1363	Pb-free Halide free	Active	1	14	6	14	0.5	0.9	150	SOT-23-3
SZNUD3112DMT1G	0.2053	AEC Qualified PPAP Capable Pb-free Halide free	Active	2	14	6	14	0.5	0.9	150	SC-74
SZNUD3112LT1G	0.176	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	14	6	14	0.5	0.9	150	SOT-23-3

Application Diagram



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