

VFD/LED DRIVER—YD329

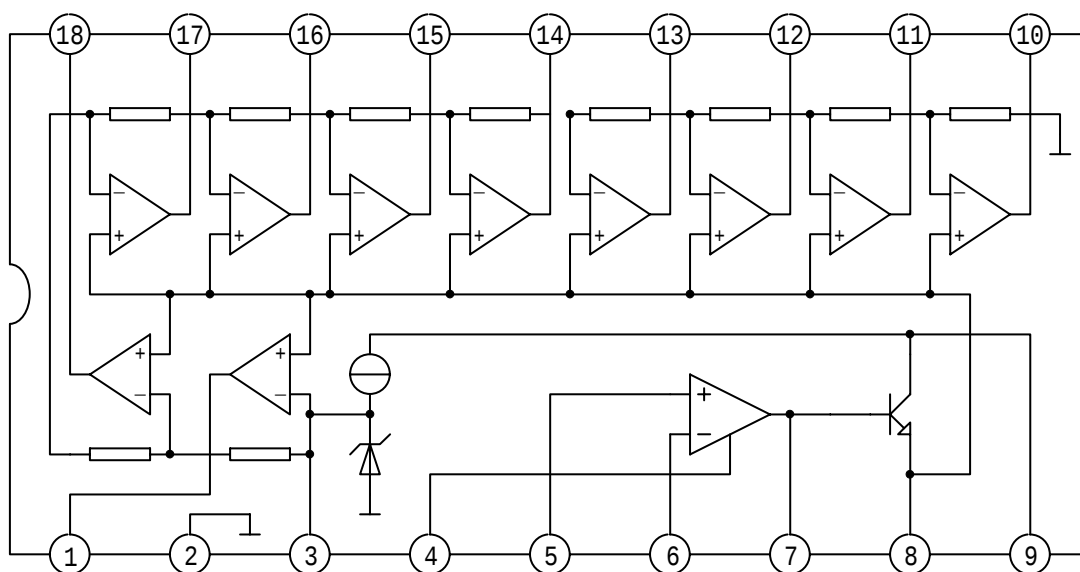
DESCRIPTION

The YD329 is a monolithic integrated circuit designed for signal 10-dot VFD/LED level meter drivers with a built-in rectifying amplifier. It is suitable for AC/DC level meters such as VU meters or signal meters.

FEATURES

- *High gain rectifying amplifier included ($G_v > 40\text{dB}$);
- *Constant current output;
- *Wide operating voltage (12~24V);
- *Minimum number of external parts required.

BLOCK DIAGRAM



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ABSOLUTE MAXIMUM RATINGS ($T_{amb}=25$)

PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V_{CC}	24	V
Amplifier Output Current	I_O	10	mA
Comparator Output Current	I_{om}	20	mA
Power dissipation	P_D	1200	mW
Operating Temperature	T_{opr}	-10 ~ +60	
Storage Temperature	T_{stg}	-10 ~ +125	

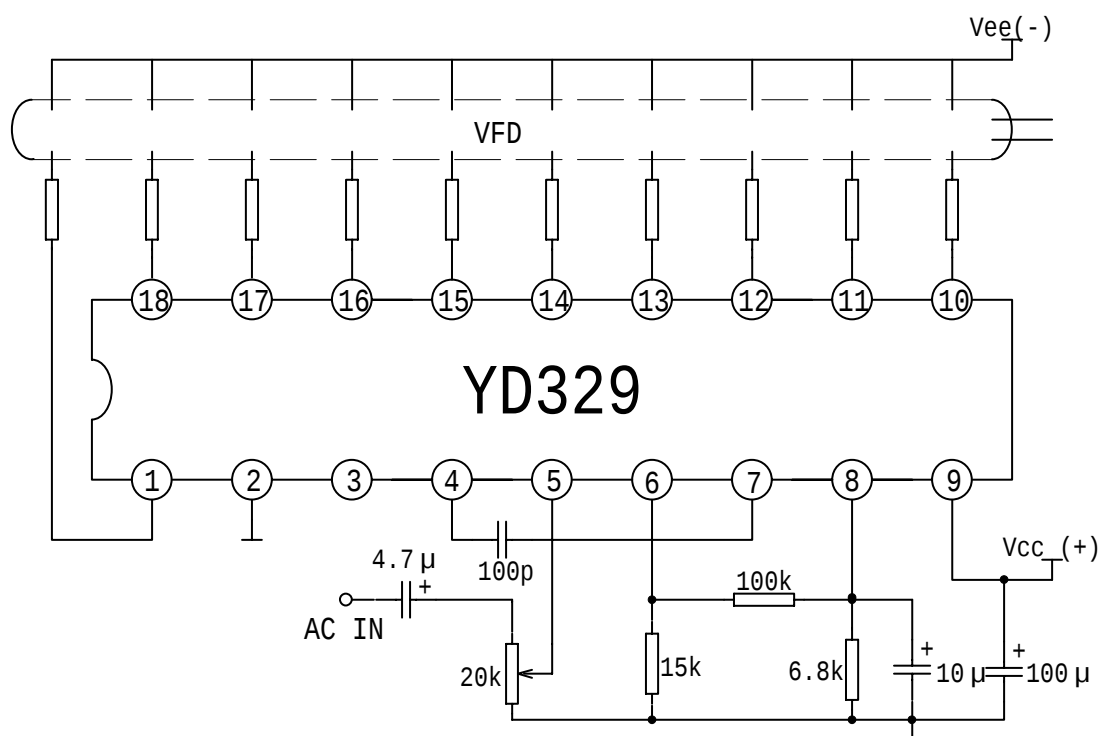
ELECTRICAL CHARACTERISTICS

($T_{amb}=25$, $V_{cc}=9V$, $f=1kHz$, $R_g=600\Omega$, Dual Channel , Unless otherwise specified)

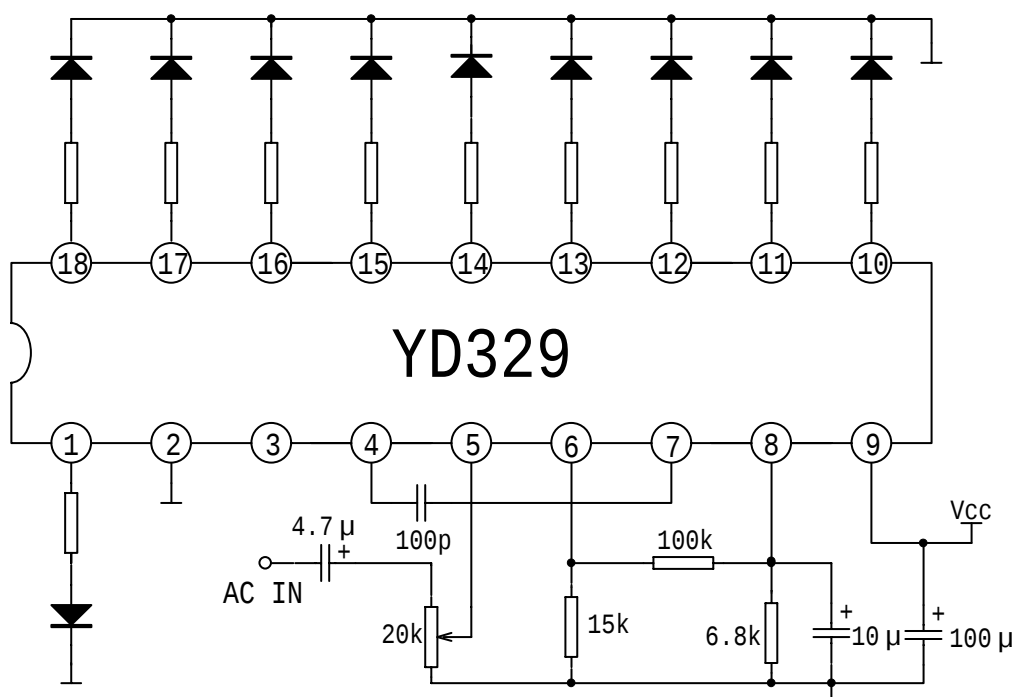
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V_{cc}		12		24	V
Supply Current	I_{ccq}				15	mA
Amplifier Bias Current	I_b	$V_{in-}=12V$, $V_{in+}=0V$			10	μA
		$V_{in-}=0V$, $V_{in+}=12V$			10	
Amplifier Output Current	I_o	$V_{in+}=12V$, $V_{in-}=0V$, $V_o=13V$			5	mA
Comparator Output Current	I_{om}	$V_{in+}=12V$, $V_{in-}=0V$, $V_o \geq 13V$			7.5	mA
Comparator Output Leak Current	I_{ole}	$V_{in+}=0V$, $V_{in-}=12V$			50	μA
Reference Voltage	V_{ref}	$V_{cc}=12 \sim 18V$	9		11	V
Comparator Output Current	V_{OH}	$I_{on}=7.5mA$, $V_{in+}=12V$, $V_{in-}=0V$	13			V
Amplifier Open Loop Gain	G_{vo}		40			dB
Comparator Difference			-20		+20	%

APPLICATION CIRCUIT

(1) VFD AC LEVEL METER



(2) LED AC LEVEL METER



OUTLINE DRAWING

