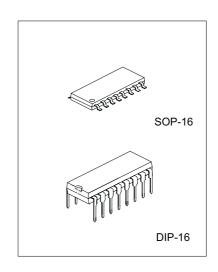
QUAD TIMER

DESCRIPTION

The Contek NE558 is a monolithic quadtimer which can be used to produce four entirely independent timing functions. The highly stable, general purpose controller can be used in a monostable mode to produce accurate time delays.

FEATURES

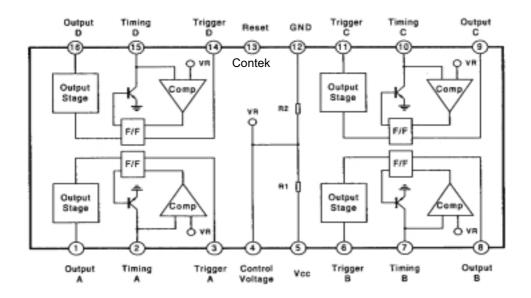
- *Wide supply voltage: Vcc= 4.5V~15V
- *100mA output current per-section
- *Edge trigger without coupling capacitor
- *Time period equals RC
- *Output independent



APPLICATIONS

- *Precision timing
- *Quad one-shot
- *Timing delay generation
- *Sequential timing.

BLOCK DIAGRAM





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LINEAR INTEGRATED CIRCUIT

ABSOLUTE MAXIMUM RATINGS(Ta=25 C)

SYMBOL	VALUE	UNIT
Vcc	16	V
Pd	600	mW
Tlead	300	С
Topr	-40~85	С
Tstg	-65~150	С
	Vcc Pd Tlead	Vcc 16 Pd 600 Tlead 300 Topr -40~85

ELECTRICAL CHARACTERISTICS(Ta=25 C, Vcc=5 to 15V, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT	
Supply Voltage	Vcc		4.5		16	V	
Supply Current	Icc	Vcc=15V,RL=15V		16	36	mA	
Timing Error(T=RC)							
Initial Accuracy	Accur	RA=2K Ω to 100K Ω C=1 μ F		2	5	%	
Drift with Temperature	Δt/ΔΤ			30	150	ppm/ C	
Drift with Supply Voltage	Δt/ΔVcc			0.1	0.9	%/V	
Threshold Voltage(Note 1)	VTH			0.63*Vcc		V	
Threshold Current	ITH			15		Na	
Trigger voltage	Vtr	Vcc=15V	0.8	1.5	2.4	V	
Trigger Current	ltr	Vtr=0		5	100	μΑ	
Reset Voltage(Note 2)	Vrst	Reset	0.8	1.5	2.4	V	
Reset Current	Irst	Reset		5	100	μΑ	
Output Voltage(Note 3)	Vol	IL=10mA IL=100mA		0.1 1	0.4 2	V	
Rise Time of Output	tR	IL=100mA		100		nSec	
Fall Time of Output	tF	IL=100mA		100	300	nSec	
Discharge Leakage Current	ILKG			10	500	nA	

- Note 1: The trigger functions only on the falling edge of the trigger pulse only after previously being high. After reset, the trigger must be brought high and then low to implement triggering.

 Note 2: For reset below 0.8V, output s set low and trigger inhibited.
- Note 3: Output structure is open collector which requires a pull up resistor to Vcc to sink current. The output is normally low sinking current.



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