Issue Number | 001
February 2012

DIODES INCORPORATED

New Product Announcement

NE555, SA555, NA555

Precision Timer ICs

The NE555, SA555 and NA555 devices are precision timing circuits capable of producing accurate time delays or oscillation.

In the time-delay or monostable mode of operation, the timed interval is controlled by a single external resistor and capacitor network.

In the astable mode of operation, the frequency and duty cycle can be controlled independently with two external resistors and a single external capacitor.

The three devices offer a selection of operating temperature ranges:

- **NE555 0 to 70°C**
- **SA555 -40 to 85°C**
- **NA555 -40 to 105°C**

All three devices are supplied in a small outline 8 pin package (SO-8).

The Diodes' Advantage

- **Industry standard part number and specification**
  Economic drop in replacement for alternative parts
- **Simple programming**
  Mode of operation simply set by the addition of one (monostable mode) or two (astable mode) resistors and a capacitor.
- **Three operating temperature ranges**
  Compatibility commercial and industrial system requirements.
- **Wide operating voltage**
  Operation specified from 4.5V to 16V. 5V supply provides output compatibility with TTL levels.

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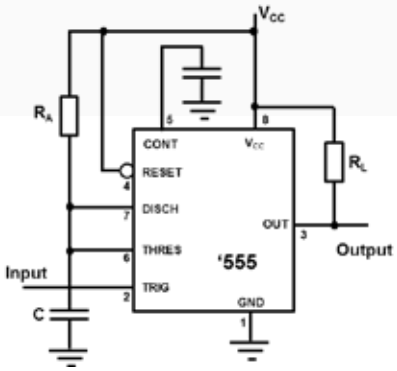
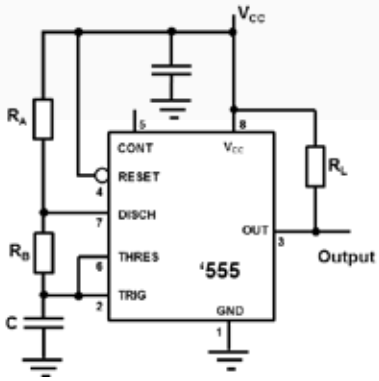
Part Number	Maximum frequency (MHz)	Max output rise time (ns)	Supply current @ Vcc= 5V (mA)		Vcc min (V)	Vcc max (V)	Operating Ambient Temperature Range (°C)	Package Outlines
			Output low	Output high				
NE555	0.5	300	3	2	4.5	16	0 to 70	SO8
SA555	0.5	300	3	2	4.5	16	-40 to 85	SO8
NA555	0.5	300	3	2	4.5	16	-40 to 105	SO8

To find out more information:
Timers overview page http://www.diodes.com/products/catalog/list.php?parent-id=120
Datasheet http://www.diodes.com/datasheets/NE555_SE555_NA555.pdf

Typical applications circuits



Monostable operation



Astable operation

Ordering information

Device	Package	Reel size	Quantity per reel	Tape width
NE555S-13	SO8	13"	2500	8mm
SA555S-13	SO8	13"	2500	8mm
NA555S-13	SO8	13"	2500	8mm

All variants are in packages are "Green" Molding Compound (No Br, Sb) with Lead Free Finish/RoHS Compliant (Note 1)
Notes:1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes