

<b>SANYO</b>	No.1077C	<b>LB8555D, 8555S</b>
		General-Purpose Timer

**Overview**

The LB8555 is a delay time generator IC capable of generating exact timing pulses. Both trigger pin and reset pin are provided for various uses such as monostable multivibrator, astable multivibrator. The output circuit is capable of applying 200mA sink/source current. Output is interfaceable to TTL. This IC is usable as a replacement for Signetics-made NE555.

**Features**

- Timing time settable from several  $\mu$ sec. to several hours
- Monostable multivibrator consisting of R=1, C=1; astable multivibrator consisting of R=2, C=1
- Adjustable duty cycle of pulse
- 200mA sink/source current for driving external load

**Applications**

- Delay time generator (monostable multivibrator)
- Pulse generator (astable multivibrator)
- Pulse width modulator
- Sequence timer
- DC-DC converter

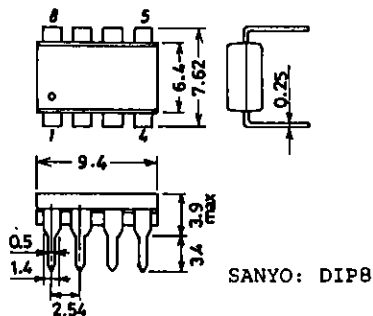
**Absolute Maximum Ratings at Ta = 25°C**

Maximum Supply Voltage	V <sub>CC</sub> max		18	V
Output Current	I <sub>OUT</sub>		±200	mA
Input Voltage		Trigger, control voltage, reset, threshold	V <sub>CC</sub>	V
Allowable Power Dissipation	P <sub>d</sub> max		625	mW
Operating Temperature	T <sub>opr</sub>		-20 to +75	°C
Storage Temperature	T <sub>stg</sub>		-40 to +125	°C

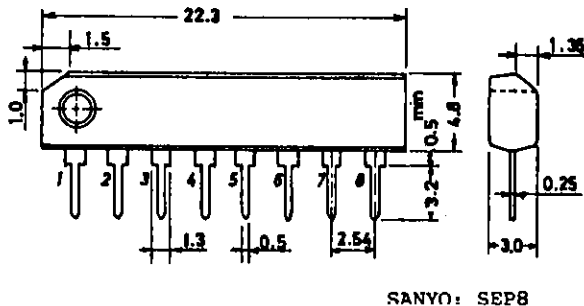
**Allowable Operating Range at Ta = 25°C**

Supply Voltage	V <sub>CC</sub>		4.5 to 16	V
Input Voltage	V <sub>i</sub>	Trigger, control voltage, reset, threshold	V <sub>CC</sub>	V
Output Current	I <sub>O</sub>		±200	mA

**Package Dimensions 3001B**  
(unit: mm)



**Package Dimensions 3016B**  
(unit: mm)

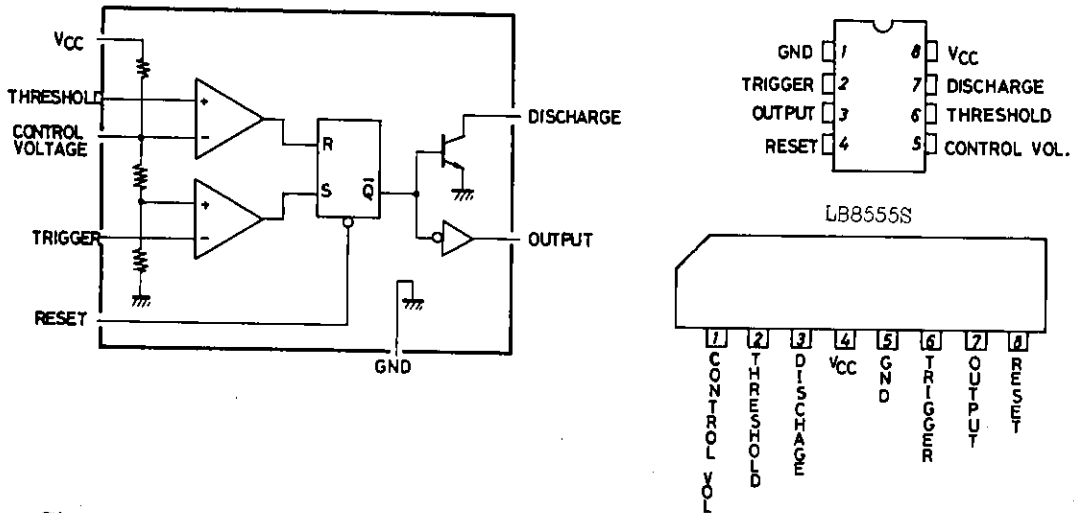


# LB8555D,8555S

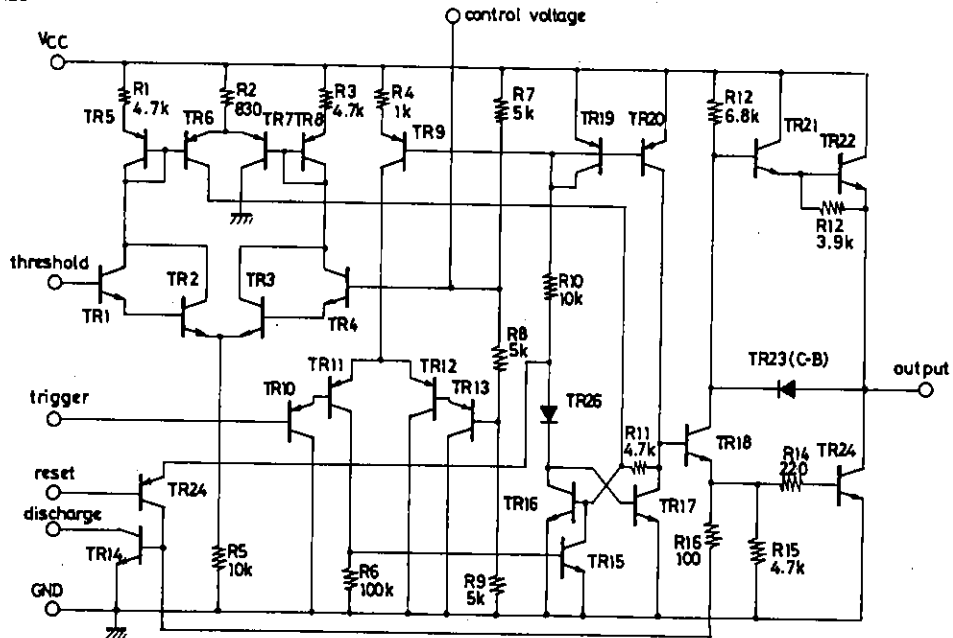
## Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Supply Current	$I_{CC1}$	$V_{CC}=5V, R_L=\infty$		3	6	mA
	$I_{CC2}$	$V_{CC}=15V, R_L=\infty$		10	15	mA
Control Voltage	$V_{con1}$	$V_{CC}=5V$	2.6	3.33	4.0	V
	$V_{con2}$	$V_{CC}=15V$	9	10	11	V
Threshold Voltage	$V_{TH}$			$2/3V_{CC}$		V
Threshold Current	$I_{TH}$			0.1	0.25	$\mu A$
Trigger Voltage	$V_T$			$1/3V_{CC}$		V
Trigger Current	$I_T$			0.5	1.0	$\mu A$
Reset Voltage	$V_{rs}$		0.35	0.7	1.0	V
Reset Current	$I_{rs}$			0.1		mA
Output 'L'-Level Voltage	$V_{OL}$	$V_{CC}=5V, I_{sink}=5mA$		0.25	0.35	V
		$V_{CC}=15V, I_{sink}=10mA$		0.1	0.25	V
		$V_{CC}=15V, I_{sink}=100mA$		2.0	2.5	V
Output 'H'-Level Voltage	$V_{OH}$	$V_{CC}=5V, I_{source}=100mA$	2.75	3.3		V
		$V_{CC}=15V, I_{source}=100mA$	12.75	13.3		V

## Equivalent Circuit Block Diagram and Pin Assignment



## Equivalent Circuit



Unit (resistance:  $\Omega$ )

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