

Description

The SS0702 is a CMOS fabricated integrated circuit, designed for X'mas gift application.

The SS0702 comprises voltage adjustment circuit, so that it's no need for external zener diode. SS0702 also contains an internal oscillator, the speed of which can be adjusted by external R and C to determine the output change rate of SCR1, SCR2, SCR3, SCR4. The output from SCR1 SCR4 of SS0702 can drive common SCR component directly. Besides, the output feature of SCR1~SCR4 also can be modified by mask option.

Features

- CMOS metal gate process.
- Voltage adjustment circuit built-in.
- Adjustable change rate.
- Output feature can be modified by mask option.

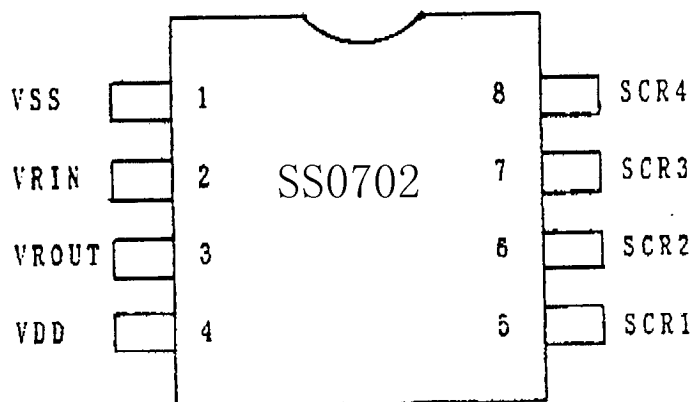
Application

- Christmas Light.
- Toy.
- General decoration.

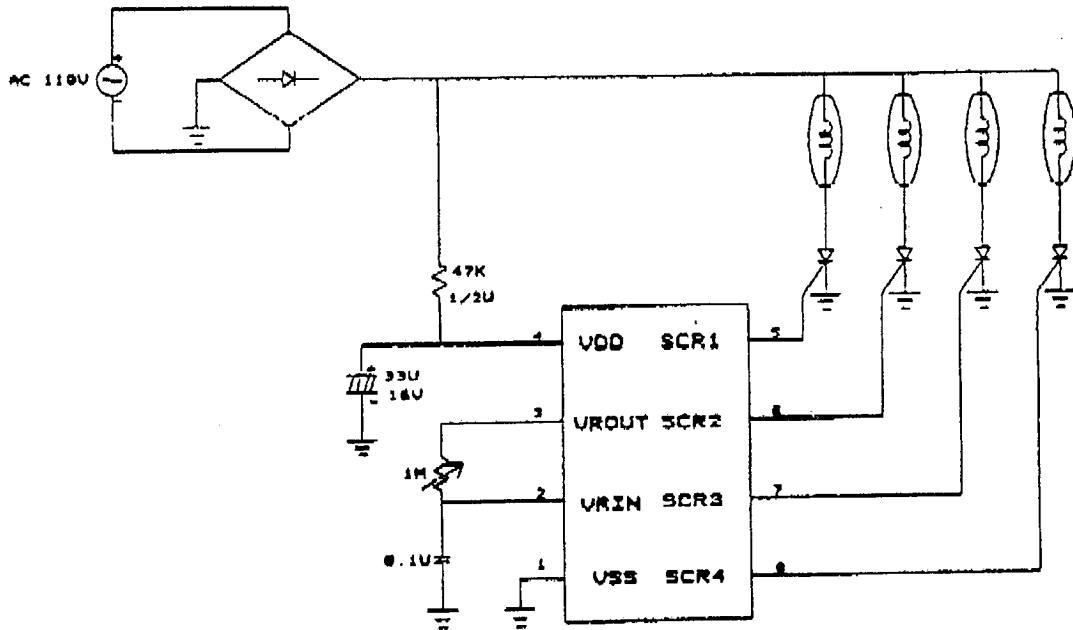
Ordering Information

Part No.	Package
SS0702	D-DIP 8L
SS0702H	Chip form

Pin Configuration



Typical Application Circuit



Application Information

Pin Number and Functional Description

Pin No	Name	Function
1	VSS	Ground
2	VRIN	Input pin for internal oscillation circuit
3	VROUT	Output pin for internal oscillation circuit
4	VDD	Power supply : +4.5V
5	SCR 1	Output Signal to control 1'st set of SCR
6	SCR 2	Output Signal to control 2'nd set of SCR
7	SCR 3	Output Signal to control 3'rd set of SCR
8	SCR 4	Output Signal to control 4'th set of SCR

Electrical Characteristics

(VDD = 4.5V, VSS = 0V, TA = 25°C)

Item	Symbol	Test Condition	Limits			Units
			Min.	Typ.	Max.	
Operating Current	I_{DD}	VDD=4.0V fosc=10KHz SCR1~SCR4=OPEN		500		μA
Input Current	I_{IN}	Vin=4.5V, VR1=VDD			0.1	μA
Stand by Current	I_{ST}	VDD=4.0V SCR1~SCR4=OPEN VR1=VSS VR2=Open		150		μA
Regulator Voltage	V_{RE}	I=2.5mA SCR1~SCR4=OPEN VR1=VSS		4.5		V
SCR1~SCR4 Output Current		Vout=0.7V (SCR1~SCR4)			200	μA
Oscillator Frequency	$f_o(\text{min})$	R=1M Ω , C=0.1 μF		40		Hz
Oscillator Frequency	$f_o(\text{ma})$	R=0 Ω , C=0.1 μF		20		KHz

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地址：深圳市福田区福华路福庆街鸿图大厦 1602 室

电话：0755-83376549 83376489 83387030 83387016

传真：0755-83376182 83338339 邮编：518033 手机：(0)13902971329

深圳展销部：深圳华强北路赛格电子市场 2583 号 TEL/FAX：
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北京分公司：北京海淀区知春路 132 号中发电子大厦 3097 号

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上海分公司：上海市北京东路 668 号上海赛格电子市场 2B35 号

TEL：021-28311762 56703037 13701955389 FAX：021-56703037

西安分公司：西安高新开发区 20 所(中国电子科技集团导航技术研究所)
西安劳动南路 88 号电子商城二楼 D23 号

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