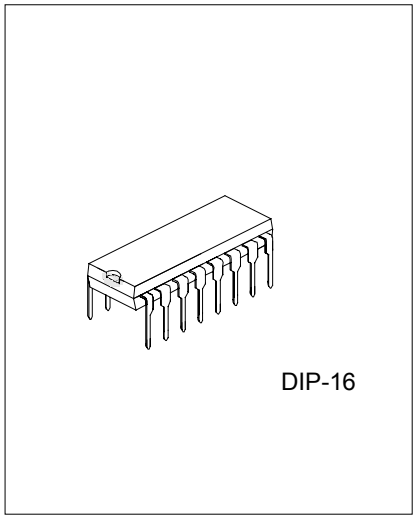
DUAL TONE MELODY XMAS LIGHT CONTROL



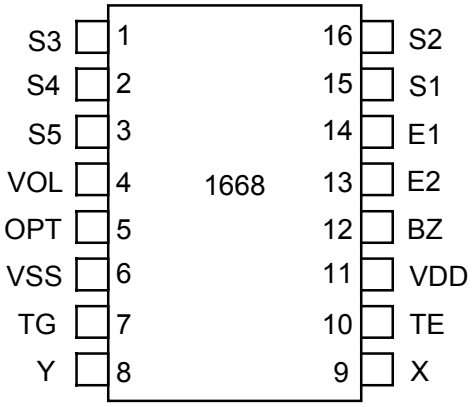
FEATURES

* 5 SCR outputs.
* 2 Mode sequence trigger key
* Mode 0: 7 function Vol pin control volume.
  Mode 1: 8 function Auto Volume control.
* OPT: ”Floation” Mode 0
  “VSS” Mode 1.

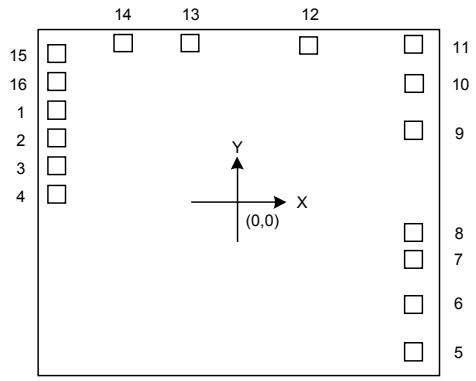
APPLICATION

* Xmas light control etc..

Pin Assignment



PAD COORDINATES



CHIP SIZE: 2.00 x 1.72mm^2
SUBSTRATE: VDD

NO	NAME	X	Y
1	S3	-911.3	436.3
2	S4	-911.3	296.4
3	S5	-911.3	156.4
4	VOL	-911.3	15
5	OPT	896.4	-772.8
6	VSS	896.4	-534.3
7	TG	896.4	-312.2
8	Y	896.4	-172.5
9	X	896.4	338.2
10	TE	896.4	571.8
11	VDD	896.4	765.6
12	BZ	369.6	757.1
13	E2	-218.2	772.7
14	E1	-554.5	772.7
15	S1	-911.3	716.4
16	S2	-911.3	576.4

UNIT:um

ELECTRICAL CHARACTERISTICS (VDD=4.3V,unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V_{DD}			4.3	5	V
Operating Current	Iop	No load			2	mA
BZ Driving Current	I_{OH}	V_{DS}=1V		0.2		mA
Oscillator Frequency	Fosc	External ±30%, Rosc=270KΩ		100		KHz
Operating Temperature	Topr		0	25	60	°C

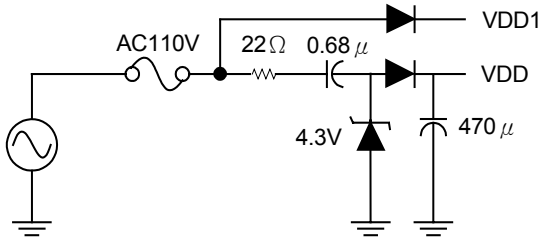
MODE FORMAT

MODE	MODE 0	MODE 1	
	LIGHT	LIGHT	VOLUME
M1	Inphase	Inphase	Max.
M2	2 Mode Sequential	2 Mode Sequential	Middle
M3	1 Lamp Flash	1 Lamp Flash	Min.
M4	2 Lamp Chasing	Rotary	Max.
M5	M1～M4 Rotary	Inphase + 2 Lamp Chasing	Middle
M6	M1～M4 Rotary	2 Mode Sequential + 1 Lamp Flash	Min.
M7	Steady on	Rotary	Mute
M8		Steady on	

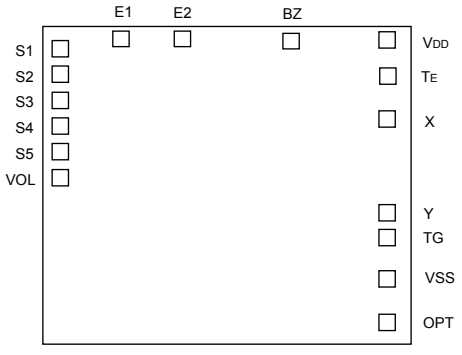
SONG LIST

No.	SONG NAME	No.	SONG NAME
1	Angels we have heard on high	14	Santa Claus coming to down
2	Silent night	15	O Christmas tree
3	Away in a manger	16	Rudolph,the red-nosed reindeer
4	We three king of orient are	17	What child is this
5	Jingle balls	18	I saw three ships
6	We wish you a merry Christmas	19	O litter town of Bethlehem
7	The twelve days of Christmas	20	God rest you merry,gentlemen hark
8	Up on the housetop	21	Deck the halls
9	Jolly old saint nickel	22	The hearld angels sing
10	Good king wencelas	23	The snow lay on the ground
11	O come ,all ye faithful	24	Bring a torch
12	Joy to the world	25	The first noel
13	It came upon the midnight clear		

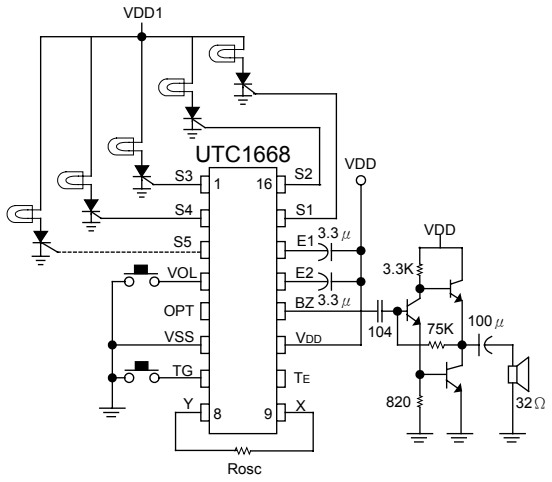
APPLICATION CIRCUIT



APPLICATION DIAGRAM



CHIP SIZE: 2.00 × 1.72mm^2
SUBSTRATE: VDD



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