



UU4761

Preliminary

CMOS IC

FLASHER IC

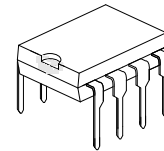
DESCRIPTION

The UTC **UU4761** is a miconductor integrated circuit designed for relay-controlled automotive flashers where a high level EMC is required.

Lamp outage is indicated by frequency doubling during hazard warning as well as direction mode.

FEATURES

- * The static operating current < 5mA
- * Wide operating voltage range
- * Very low susceptibility to EMI



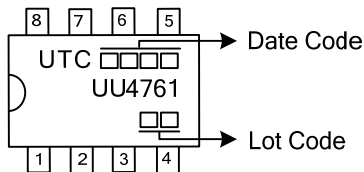
DIP-8

ORDERING INFORMATION

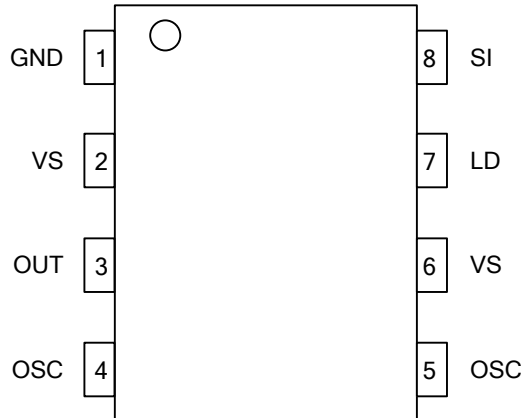
Ordering Number		Package	Packing
Lead Free	Halogen Free		
UU4761L-D08-T	UU4761G-D08-T	DIP-8	Tube

<p>UU4761L-D08-T</p> <p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Green Package</p>	<p>(1) T: Tube</p> <p>(2) D08: DIP-8</p> <p>(3) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING



■ PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO.	PIN NAME	DESCRIPTION
1	GND	IC ground
2	VS	Supply voltage
3	OUT	Relay driver
4	OSC	C ₁ Oscillator
5	OSC	R ₁ Oscillator
6	VS	Supply voltage, Sense
7	LD	Lamp outage detection
8	SI	Start input (49a)

■ ELECTRICAL CHARACTERISTICS ($V_{BATT}=13.5V$, $T_{AMB}=25^{\circ}C$)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage Range	V_{BATT}	Pin 2 and 6	9.5	13	18	V
Supply Current	I_{CC}	R=2L (Note 1)		150		mA
		R=L (Note 1)		30		
Output Current	I_{OH}	$R_J=100\Omega$, Pin4=GND, Pin7=GND (Note 2)		120	200	mA
	I_{OL}	$R_J=100\Omega$, Pin4=GND, Pin7= V_{CC} (Note 2)		10	100	μA
Flasher Frequency		R1=120K Ω , C1=3.3 μF , R=2L (Note 1)	70	80	90	T/M
		R1=120K Ω , C1=3.3 μF , R=1L (Note 1)	140	160	180	T/M
Control Signal Threshold	$V_{Pin2} \sim V_{Pin7}$	Vpin2=13.5V, R3=330 Ω		51		mV

Notes: 1. L for lamp 12V/21W.

2. R_J for relay coil resistance 100 Ω .

■ TYPICAL APPLICATION CIRCUIT

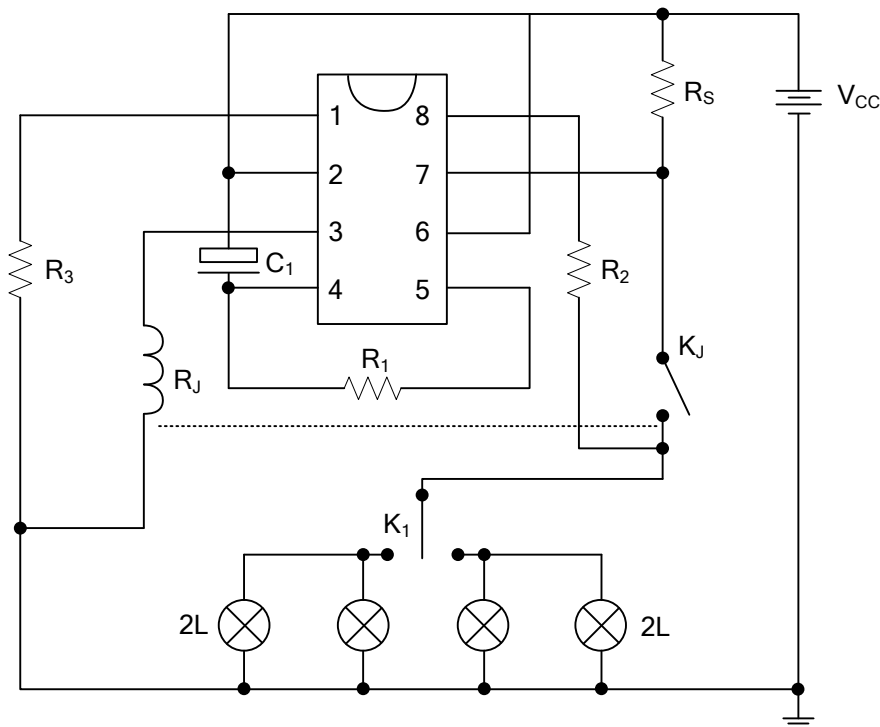
1. 12V Flasher

R1=91KΩ~120KΩ, R2=3.0KΩ, R3=330Ω, R_L=0.017Ω
 R_J, K_J for relay, Coil resistance R_J=100Ω
 L for lamp 12V/21W

2. 24V Flasher

R1=91KΩ~120KΩ, R2=3.0KΩ, R3=1.2KΩ, R_L=0.054~0.075Ω
 R_J, K_J for relay, Coil resistance R_J=300~360Ω
 L for lamp 24V/21W

12V/24V Flasher Typical Application Circuit



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