



UU4761

CMOS IC

FLASHER IC

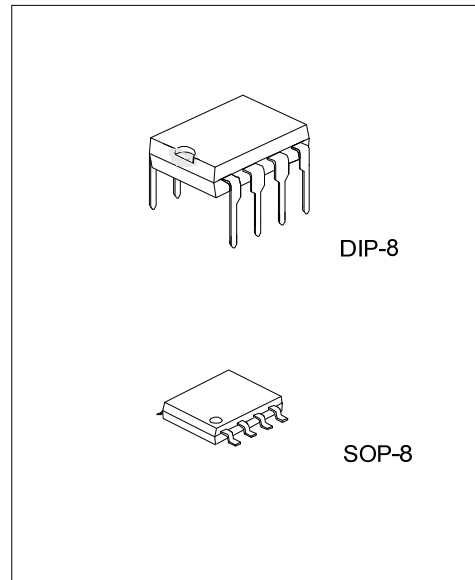
DESCRIPTION

The UTC **UU4761** is a microconductor 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



ORDERING INFORMATION

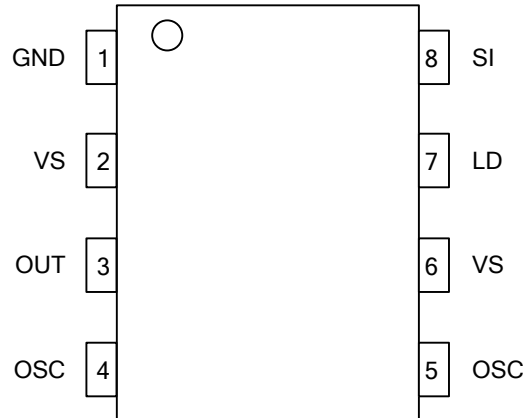
Ordering Number		Package	Packing
Lead Free	Halogen Free		
UU4761L-D08-T	UU4761G-D08-T	DIP-8	Tube
UU4761L-S08-R	UU4761G-S08-R	SOP-8	Tape Reel

<p>UU4761G-D08-T</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel, T: Tube (2) D08: DIP-8, S08: SOP-8 (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING

DIP-8	SOP-8

■ 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 ($V_{BATT}=13.5V$, $T_A=25^\circ C$)

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	$V_{Pin2} \sim V_{Pin7}$	$V_{Pin2}=13.5V$, 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

$R_1=91K\Omega\sim 120K\Omega$, $R_2=3.0K\Omega$, $R_3=330\Omega$, $R_L=0.017\Omega$

R_J, K_J for relay, Coil resistance $R_J=100\Omega$

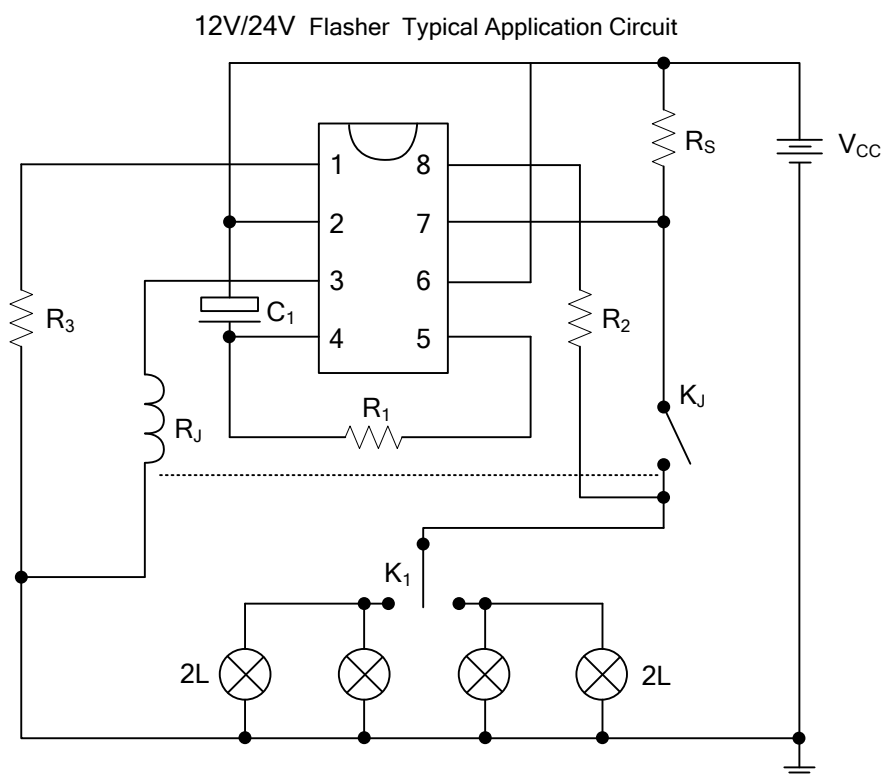
L for lamp 12V/21W

2. 24V Flasher

$R_1=91K\Omega\sim 120K\Omega$, $R_2=3.0K\Omega$, $R_3=1.2K\Omega$, $R_L=0.054\sim 0.075\Omega$

R_J, K_J for relay, Coil resistance $R_J=300\sim 360\Omega$

L for lamp 24V/21W



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