

### CDI CONTROL SYSTEM IC

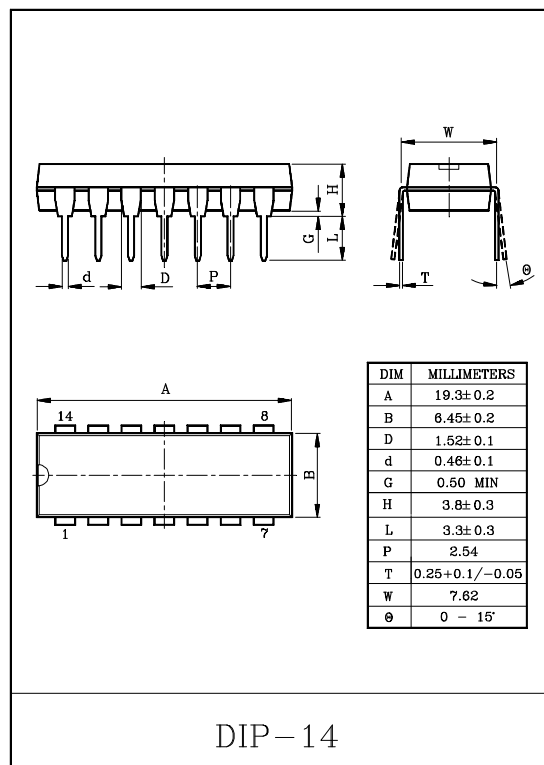
The KIA6988P is designed for motor cycle condenser discharge ignition system application

### FEATURES

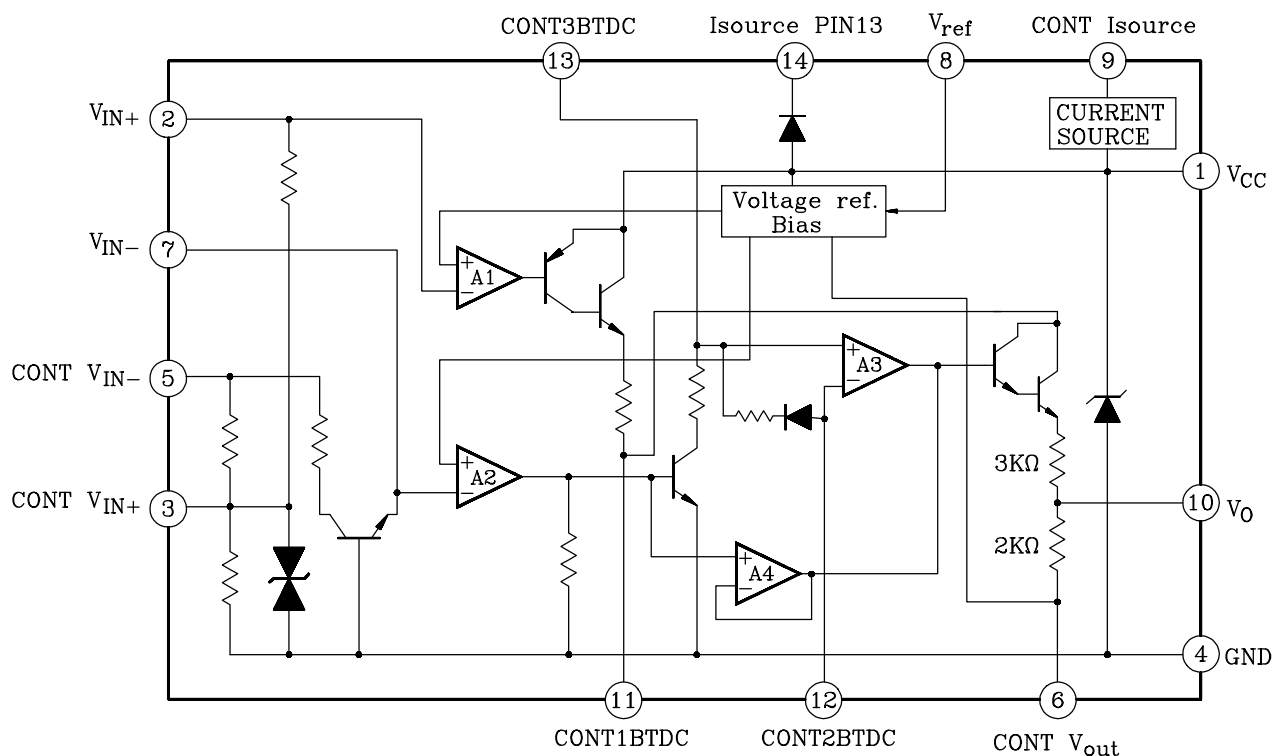
- 14-Pin Dual in line Package.

### MAXIMUM RATINGS (Ta=25°C).

| CHARACTERISTIC        | SYMBOL    | RATING  | UNIT |
|-----------------------|-----------|---------|------|
| Supply Current        | $I_{CC}$  | 30      | mA   |
| Power Dissipation     | $P_D$     | 480     | mW   |
| Operating Temperature | $T_{opr}$ | -20~85  | °C   |
| Storage Temperature   | $T_{stg}$ | -55~125 | °C   |

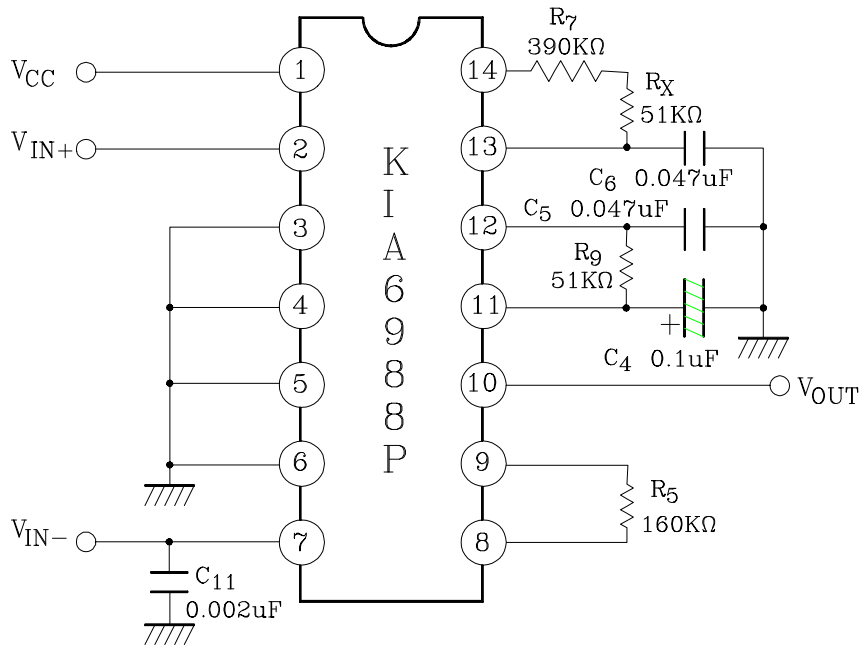


### BLOCK DIAGRAM



# KIA6988P

## TEST CIRCUIT



## ELECTRICAL CHARACTERISTICS (Ta=25℃, VCC=8.8V)

| CHARACTERISTIC       | SYMBOL     | TEST CONDITION                          | MIN. | TYP. | MAX. | UNIT |
|----------------------|------------|-----------------------------------------|------|------|------|------|
| Regulated Voltage    | $V_Z$      | $I_{CCZ}=2mA$                           | 7.8  | 8.6  | 9.4  | V    |
| ② pin $V_{IN}$ ON    | $V_{INH+}$ | $V_{IN7}=-0.2V$                         | 0.7  | -    | -    | V    |
| ② pin $V_{IN}$ OFF   | $V_{INL+}$ | $V_{IN7}=-0.2V$                         | -    | -    | 0.4  | V    |
| ⑦ pin $V_{IN}$ ON    | $V_{INH-}$ | $V_{IN2}=0.85V$                         | -1.0 | -    | -0.2 | V    |
| ⑦ pin $V_{IN}$ OFF   | $V_{INL-}$ | $V_{IN2}=0.85V$                         | 0.7  | -    | -    | V    |
| ⑧ pin $V_{OUT}$ HIGH | $V_{OH8}$  | $V_{IN2}=0.85V, V_{IN7}=-0.2V$          | 1.0  | 1.3  | 1.6  | V    |
| ⑧ pin $V_{OUT}$ LOW  | $V_{OL8}$  | $V_{IN2}=0V, V_{IN7}=-0.2V$             | 0.6  | 0.9  | 1.2  | V    |
| ⑩ pin OUTPUT CURRENT | $I_{OH10}$ | $V_{IN2}=0.85V, V_{IN7}=-0.2V$          | 1.9  | 2.5  | -    | mA   |
| ⑩ pin $V_{OUT}$ HIGH | $V_{OH10}$ | $V_{IN2}=0.85V, V_{IN7}=-0.2V, I_L=0mA$ | 2.4  | 3.0  | 4.5  | V    |
| ⑩ pin $V_{OUT}$ LOW  | $V_{OL10}$ | $V_{IN2}=0V, V_{IN7}=-0.2V, I_L=0mA$    | -    | -    | 0.4  | V    |
| ⑪ pin $V_{OUT}$ HIGH | $V_{OH11}$ | $V_{IN2}=0.85V, V_{IN7}=-0.2V$          | -    | 7.8  | -    | V    |
| ⑫ pin $V_{OUT}$ HIGH | $V_{OH12}$ | $V_{IN2}=0.85V, V_{IN7}=-0.2V$          | -    | 3.9  | -    | V    |
| ⑬ pin $V_{OUT}$ HIGH | $V_{OH13}$ | $V_{IN2}=0V, V_{IN7}=0.8V$              | -    | 6.7  | -    | V    |
| ⑬ pin $V_{OUT}$ LOW  | $V_{OL13}$ | $V_{IN2}=0.85V, V_{IN7}=-0.2V$          | -    | 0.2  | -    | V    |

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## APPLICATION CIRCUIT

