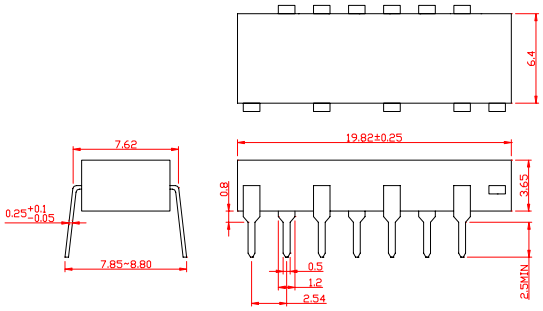
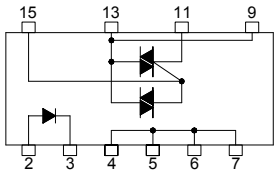
- **Features：**
  1. Compact dual-in-line Package.
  2. 600V peak blocking voltage.
  3. Isolation voltage between input and output 2500Vrms.

- **Application：**
  1. TRIAC Driver.
  2. Programmable Controllers.
  3. AC-Output Module.
  4. Solid State Relay.

- **Outside Dimension：Unit ( mm )**




- **Schematic：Top View**




2：Anode
3：Cathode
4,5,6,7：N.C
9,13：TRIAC T2
11：TRIAC T1
15：TRIAC Gate

- **Absolute Maximum Ratings：( Ta=25℃ )**

| | CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|---|
| Input | Forward Current | | $I_F$ | 50 | mA |
| | Forward Current Derating ( Ta≧53℃ ) | | $\Delta I_F/℃$ | -0.7 | mA/℃ |
| | Peak Forward Current ( 100 μs pulse, 100pps ) | | $I_{FP}$ | 1 | A |
| | Reverse Voltage | | $V_R$ | 5 | V |
| | Junction Temperature | | Tj | 125 | ℃ |
| Output | Off-State Output Terminal Voltage | | $V_{DRM}$ | 600 | V |
| | On-State RMS Current | Ta=40℃ | $I_{T(RMS)}$ | 1.0 | A |
| | | Ta=60℃ | | 0.7 | |
| | On-State Current Derating ( Ta≧40℃ ) | | $\Delta I_T/℃$ | -14.3 | mA/℃ |
| | Peak Current from Snubber Circuit ( 100 μ pulse, 120pps ) | | $I_{SP}$ | 2 | A |
| | Peak Nonrepetitive Surge Current ( 50Hz, Peak ) | | $I_{TSM}$ | 10 | A |
| | Junction Temperature | | Tj | 110 | ℃ |
| Storage Temperature Range | | | $T_{stg}$ | -40~125 | ℃ |
| Operating Temperature Range | | | $T_{opr}$ | -20~80 | ℃ |
| Lead Soldering Temperature ( 10s ) | | | $T_{sol}$ | 260 | ℃ |
| Isolation Voltage ( AC, 1min., R.H.≦60% ) | | | $BV_S$ | 2500 | Vrms |

- **Electro-optical characteristics：**

| | CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|---|
| Input | Forward Voltage | $V_F$ | $I_F$=10mA | 1.0 | 1.15 | 1.3 | V |
| | Reverse Current | $I_R$ | $V_R$=5V | - | - | 10 | μA |
| | Capacitance | $C_T$ | V=0, f=1MHz | - | 30 | - | pF |
| Output | Peak Off-State Current | $I_{DRM}$ | $V_{DRM}$=600V, Ta=110℃ | - | - | 100 | μA |
| | Peak On-State Voltage | $V_{TM}$ | $I_{TM}$=1.5A | - | - | 3.0 | V |
| | Holding Current | $I_H$ | $R_L$=100Ω | - | - | 25 | mA |
| | Critical Rate of Rise of Off-State Voltage | dv/dt | Vin=240Vrms | 200 | 500 | - | V/μs |
| | Critical Rate of Rise of Commutating Voltage | dv/dt(c) | Vin=240Vrms, $I_T$=1Arms | - | 5 | - | V/μs |
| Transfer | Trigger LED Current | $I_{FT}$ | $V_T$=6V | - | - | 10 | mA |
| | Capacitance ( Input to Output ) | $C_S$ | $V_S$=0, f=1MHz | - | 1.5 | - | pF |
| | Isolation Resistance | $R_S$ | $V_S$=500V | $5X10^{10}$ | $10^{14}$ | - | Ω |
| | Isolation Voltage | $BV_S$ | AC, 1minute | 2500 | - | - | Vrms |
| | | | AC, 1second, in oil | - | 5000 | - | |
| | | | DC, 1minute, in oil | - | 5000 | - | Vdc |