

## Solid State Relay Electrical Specification Tables

### 8 Pin DIP 600mA

| Part Number | Features                | Input Trigger Current<br>V <sub>D</sub> = 6V<br>Max (mA) | Isolation Breakdown Voltage | Peak Blocking Voltage<br>Min (V) | Zero Crossing Inhibit Voltage<br>I <sub>FT</sub> = 10mA<br>Max (V) | RMS On-State Current<br>Max (mA) | Forward Voltage<br>I <sub>F</sub> = 20mA<br>Max (V) | Package | Schematic |
|-------------|-------------------------|----------------------------------------------------------|-----------------------------|----------------------------------|--------------------------------------------------------------------|----------------------------------|-----------------------------------------------------|---------|-----------|
| ISRT84006   | Instantaneous Switching | 10                                                       | 4000 RMS                    | 400                              | -                                                                  | 600                              | 1.4                                                 | 1       | 1         |
| ISRT86006   |                         |                                                          |                             | 600                              | -                                                                  |                                  |                                                     |         |           |
| ISRX84006   | Zero-Crossing Switching |                                                          |                             | 400                              | 35                                                                 |                                  |                                                     |         | 2         |
| ISRX86006   |                         |                                                          |                             | 600                              |                                                                    |                                  |                                                     |         |           |

### 16 Pin DIP 1.2A

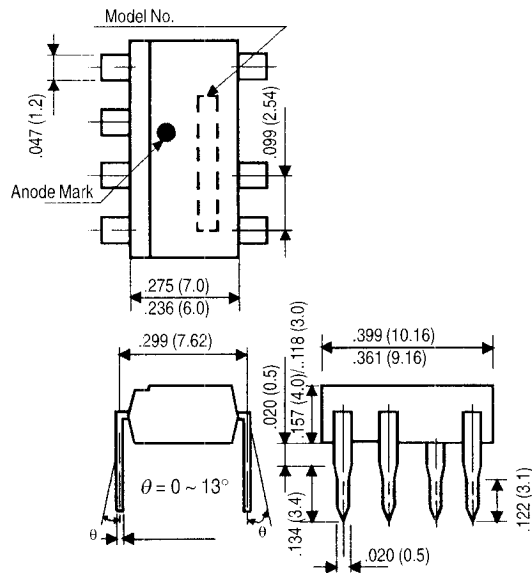
| Part Number | Features                | Input Trigger Current<br>V <sub>D</sub> = 6V<br>Max (mA) | Isolation Breakdown Voltage<br>Min (V) | Peak Blocking Voltage<br>Max (V) | Zero Crossing Inhibit Voltage<br>I <sub>FT</sub> = 10mA<br>Max (V) | RMS On-State Current<br>Max (A) | Forward Voltage<br>I <sub>F</sub> = 20mA<br>Max (V) | Package | Schematic |
|-------------|-------------------------|----------------------------------------------------------|----------------------------------------|----------------------------------|--------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|---------|-----------|
| ISRT164012  | Instantaneous Switching | 10                                                       | 4000 RMS                               | 400                              | -                                                                  | 1.2                             | 1.4                                                 | 2       | 3         |
| ISRT166012  |                         |                                                          |                                        | 600                              | -                                                                  |                                 |                                                     |         |           |
| ISRX164012  | Zero-Crossing Switching |                                                          |                                        | 400                              | 35                                                                 |                                 |                                                     |         | 4         |
| ISRX166012  |                         |                                                          |                                        | 600                              |                                                                    |                                 |                                                     |         |           |

### 4 Pin SIP 8-16A

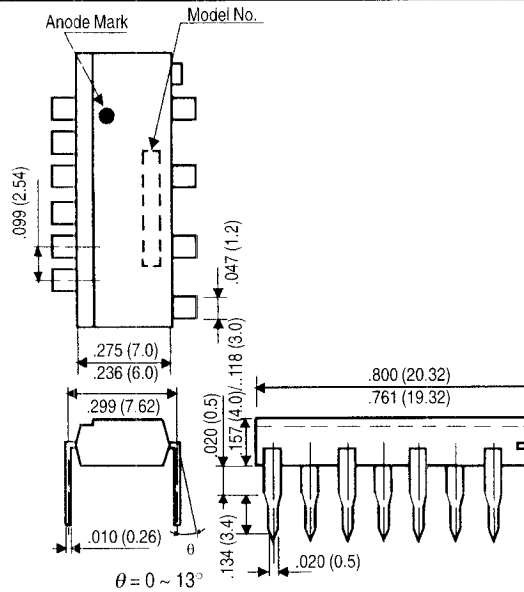
| Part Number | Features                | Input Trigger Current<br>V <sub>0</sub> = 6V<br>Max (mA) | Isolation Breakdown Voltage<br>Min (V) | Peak Blocking Voltage<br>Min (V) | Zero Crossing Inhibit Voltage<br>I <sub>FT</sub> = 8mA<br>Max (V) | RMS On-State Current<br>Max (A) | Forward Voltage<br>I <sub>F</sub> = 20mA<br>Max (V) | Package | Schematic |   |
|-------------|-------------------------|----------------------------------------------------------|----------------------------------------|----------------------------------|-------------------------------------------------------------------|---------------------------------|-----------------------------------------------------|---------|-----------|---|
| ISRT44080   | Instantaneous Switching | 8                                                        | 4000 RMS                               | 400                              | -                                                                 | 8                               | 1.4                                                 | 3       | 5         |   |
| ISRT46080   |                         |                                                          |                                        | 600                              |                                                                   | 16                              |                                                     |         |           |   |
| ISRT44160   |                         |                                                          |                                        | 400                              |                                                                   |                                 |                                                     |         |           |   |
| ISRT46160   |                         |                                                          |                                        | 600                              |                                                                   |                                 |                                                     |         |           |   |
| ISRX44080   | Zero-Crossing Switching |                                                          |                                        | 400                              | 35                                                                | 8                               |                                                     |         | 16        | 6 |
| ISRX46080   |                         |                                                          |                                        | 600                              |                                                                   |                                 |                                                     |         |           |   |
| ISRX44160   |                         |                                                          |                                        | 400                              |                                                                   |                                 |                                                     |         |           |   |
| ISRX46160   |                         |                                                          |                                        | 600                              |                                                                   |                                 |                                                     |         |           |   |

## Solid State Relay Package Drawings

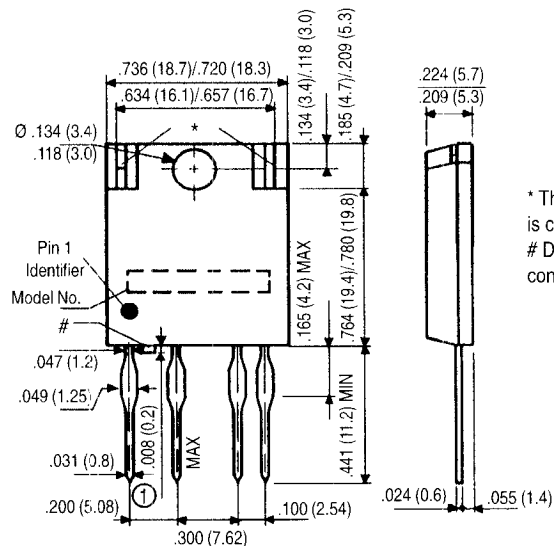
1



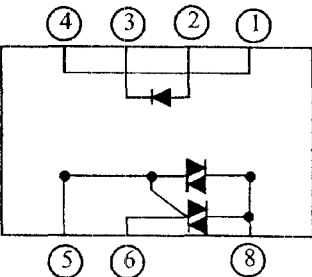
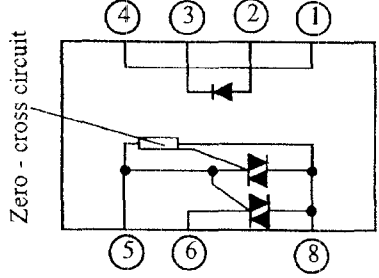
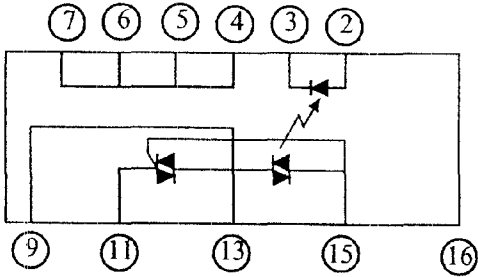
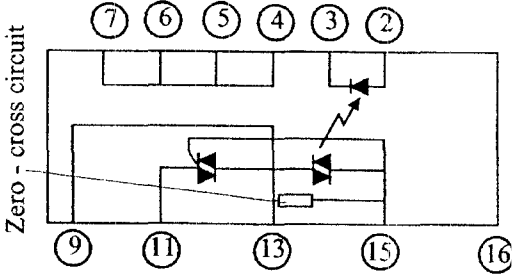
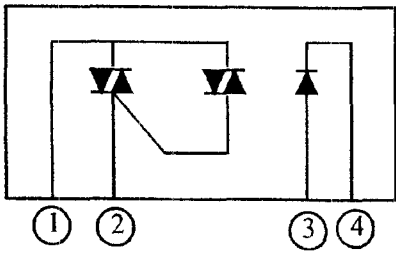
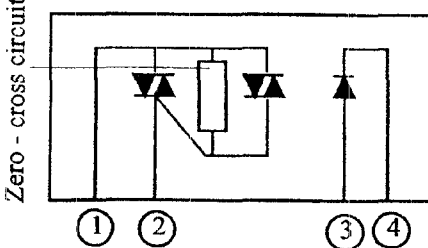
2



3



\* The metal part marked \* is common with terminal ①  
# Do not allow external connection

| Internal Connection Diagram                                                                                                                                                                                                                       | Package Type | Part Number                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------|
| <b>1</b>  <p>1 Cathode<br/>2 Anode<br/>3 Cathode<br/>4 Cathode<br/>5 Gate<br/>6 T<sub>1</sub><br/>7 T<sub>2</sub></p>                                            | DIP Type     | ISRT 84006<br>ISRT 86006                             |
| <b>2</b>  <p>1 Cathode<br/>2 Anode<br/>3 Cathode<br/>4 Cathode<br/>5 Gate<br/>6 T<sub>1</sub><br/>7 T<sub>2</sub></p>                                            |              | ISRX 84006<br>ISRX 86006                             |
| <b>3</b>  <p>2 Anode<br/>3 Cathode<br/>4 NC<br/>5 NC<br/>6 NC<br/>7 NC<br/>9 T<sub>2</sub><br/>11 T<sub>1</sub><br/>13 T<sub>2</sub><br/>15 Gate<br/>16 NC</p>  |              | ISRT 164012<br>ISRT 166012                           |
| <b>4</b>  <p>2 Anode<br/>3 Cathode<br/>4 NC<br/>5 NC<br/>6 NC<br/>7 NC<br/>9 T<sub>2</sub><br/>11 T<sub>1</sub><br/>13 T<sub>2</sub><br/>15 Gate<br/>16 NC</p> |              | ISRX 164012<br>ISRX 166012                           |
| <b>5</b>  <p>1 Output (AC)<br/>2 Output (AC)<br/>3 Input (+)<br/>4 Input (-)</p>                                                                               | SIP Type     | ISRT 44080<br>ISRT 46080<br>ISRT 44160<br>ISRT 46160 |
| <b>6</b>  <p>1 Output (AC)<br/>2 Output (AC)<br/>3 Input (+)<br/>4 Input (-)</p>                                                                               |              | ISRX 44080<br>ISRX 46080<br>ISRX 44160<br>ISRX 46160 |