

## isc Triacs

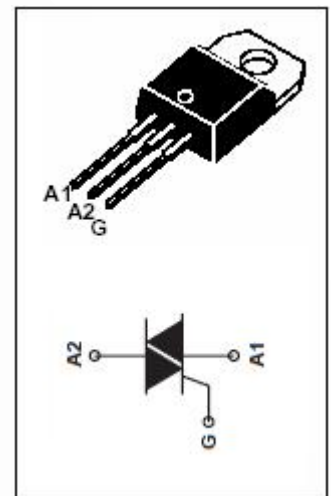
## BTA06-600

## FEATURES

- With TO-220 insulated package
- Suitable for AC switching operations, which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits or for phase control in light dimmers, motor speed controllers etc.

## ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL              | PARAMETER                                                   | MIN     | UNIT |
|---------------------|-------------------------------------------------------------|---------|------|
| V <sub>DRM</sub>    | Repetitive peak off-state voltage                           | 600     | V    |
| V <sub>RRM</sub>    | Repetitive peak reverse voltage                             | 600     | V    |
| I <sub>T(RMS)</sub> | RMS on-state current (full sine wave) T <sub>j</sub> =105°C | 6       | A    |
| I <sub>TSM</sub>    | Non-repetitive peak on-state current t <sub>p</sub> =20ms   | 60      | A    |
| T <sub>j</sub>      | Operating junction temperature                              | 125     | °C   |
| T <sub>stg</sub>    | Storage temperature                                         | -45~150 | °C   |


ELECTRICAL CHARACTERISTICS (T<sub>c</sub>=25°C unless otherwise specified)

| SYMBOL           | PARAMETER                         | CONDITIONS                                                                                     | MAX   |     | UNIT |
|------------------|-----------------------------------|------------------------------------------------------------------------------------------------|-------|-----|------|
|                  |                                   |                                                                                                | C     | B   |      |
| I <sub>RRM</sub> | Repetitive peak reverse current   | V <sub>R</sub> =V <sub>RRM</sub> ,<br>V <sub>R</sub> =V <sub>RRM</sub> , T <sub>j</sub> =125°C | 0.005 | 1.0 | mA   |
| I <sub>DRM</sub> | Repetitive peak off-state current | V <sub>D</sub> =V <sub>DRM</sub> ,<br>V <sub>D</sub> =V <sub>DRM</sub> , T <sub>j</sub> =125°C | 0.005 | 1.0 | mA   |
| I <sub>GT</sub>  | Gate trigger current              | V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω                                                     | 25    | 50  | mA   |
|                  |                                   |                                                                                                | 25    | 50  |      |
|                  |                                   |                                                                                                | 25    | 50  |      |
|                  |                                   |                                                                                                | 50    | 100 |      |
| I <sub>H</sub>   | Holding current                   | I <sub>GT</sub> = 0.5A, Gate Open                                                              | 25    | 50  | mA   |
| V <sub>GT</sub>  | Gate trigger voltage all quadrant | V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω                                                     | 1.3   |     | V    |
| V <sub>TM</sub>  | On-state voltage                  | I <sub>T</sub> = 11A; t <sub>p</sub> = 380 μs                                                  | 1.55  |     | V    |