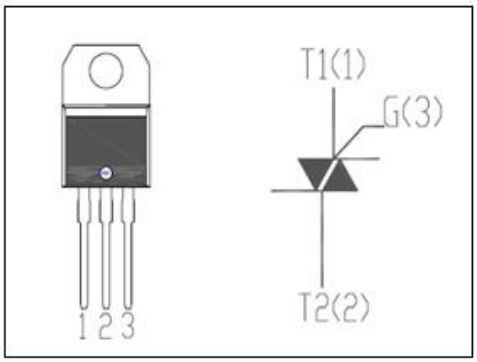
# isc Triacs BTA24-800BWRG




## FEATURES

- With TO-220AB insulated package
- Suitables for general purpose where high surge current capability is required.Application such as phase control and tatic switching on inductive or resistive load.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

| SYMBOL | PARAMETER | MIN | UNIT |
|---|---|---|---|
| $V_{DRM}$ | Repetitive peak off-state voltage | 800 | V |
| $V_{RRM}$ | Repetitive peak off-state voltage | 800 | V |
| $I_{T(RMS)}$ | RMS on-state current (full sine wave)$T_j$=75℃ | 25 | A |
| $I_{TSM}$ | Non-repetitive peak on-state current $t_p$=20ms | 250 | A |
| $T_j$ | Operating junction temperature | 125 | ℃ |
| $T_{stg}$ | Storage temperature | -40~150 | ℃ |
| $R_{th(j-c)}$ | Thermal resistance, junction to case | 1.7 | ℃/W |
| $R_{th(j-a)}$ | Thermal resistance, junction to ambient | 60 | ℃/W |

## ELECTRICAL CHARACTERISTICS ($T_C$=25℃ unless otherwise specified)

| SYMBOL | PARAMETER | | CONDITIONS | MAX | UNIT |
|---|---|---|---|---|---|
| $I_{RRM}$ | Repetitive peak reverse current | | $V_R$=$V_{RRM}$, Tj=25℃<br>$V_R$=$V_{RRM}$, Tj=125℃ | 0.005<br>3.0 | mA |
| $I_{DRM}$ | Repetitive peak off-state current | | $V_D$=$V_{DRM}$,Tj=25℃<br>$V_D$=$V_{DRM}$, Tj=125℃ | 0.005<br>3.0 | mA |
| $I_{GT}$ | Gate trigger current | I | $V_D$=12V; $R_L$= 33Ω | 50 | mA |
| | | II | | 50 | |
| | | III | | 50 | |
| $I_H$ | Holding current | | $I_{GT}$= 0.5A, Gate Open | 75 | mA |
| $V_{GT}$ | Gate trigger voltage all quadrant | | $V_D$=12V; $R_L$= 33Ω | 1.3 | V |
| $V_{TM}$ | On-state voltage | | $I_T$= 35A; $t_p$= 380μs | 1.55 | V |