

isc Triacs

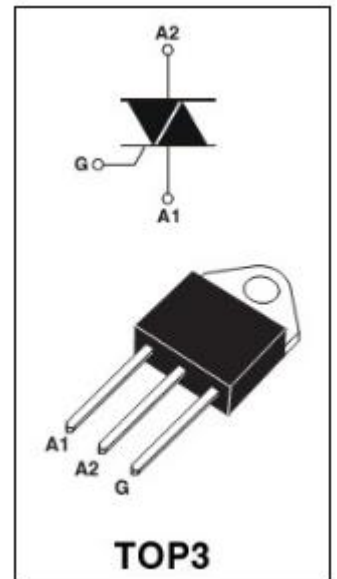
BTA41

FEATURES

- With TOP3 insulated package
- Suitable for general purpose where high surge current capability is required.
Application such as phase control and static switching on inductive or resistive load.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | MIN | UNIT |
|----------------------|--|---------|------|
| V _{DRM} | Repetitive peak off-state voltage | 800 | V |
| V _{RRM} | Repetitive peak reverse voltage | 800 | V |
| I _{T(RMS)} | RMS on-state current (full sine wave) T _j =90°C | 41 | A |
| I _{TSM} | Non-repetitive peak on-state current t _p =8.3ms | 410 | A |
| T _j | Operating junction temperature | 125 | °C |
| T _{stg} | Storage temperature | -40~150 | °C |
| P _{G(AV)} | Average gate power dissipation(T _j =125°C) | 1 | W |
| R _{th(j-c)} | Thermal resistance, junction to case | 0.9 | °C/W |

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

| SYMBOL | PARAMETER | CONDITIONS | MAX | UNIT | |
|------------------|-----------------------------------|--|-------------|------|----|
| I _{RRM} | Repetitive peak reverse current | V _R =V _{RRM} , V _R =V _{RRM} , T _j =125°C | 0.01 2.0 | mA | |
| I _{DRM} | Repetitive peak off-state current | V _D =V _{DRM} , V _D =V _{DRM} , T _j =125°C | 0.01 2.0 | mA | |
| I _{GT} | Gate trigger current | V _D =12V; R _L = 100 Ω | I | 50 | mA |
| | | | II | 50 | |
| | | | III | 50 | |
| | | | IV | 100 | |
| I _H | Holding current | I _{GT} = 0.5A, Gate Open | 80 | mA | |
| V _{GT} | Gate trigger voltage all quadrant | V _D =12V; R _L = 100 Ω | 1.5 | V | |
| V _{TM} | On-state voltage | I _{TM} = 82A | 1.55 | V | |

NOTICE:

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