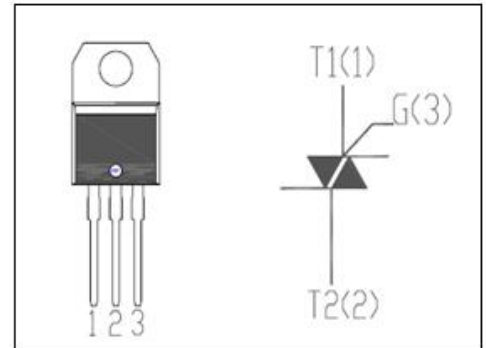


FEATURES

- With TO-220AB insulated package
- Suitable for general purpose AC switching. 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 operation in light dimmers, motor speed controllers etc.
- 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 | 600 | V |
| V _{RRM} | Repetitive peak off-state voltage | 600 | V |
| I _{T(RMS)} | RMS on-state current (full sine wave) | 8 | A |
| I _{TSM} | Non-repetitive peak on-state current t _p =20ms | 80 | A |
| T _j | Operating junction temperature | 125 | °C |
| T _{stg} | Storage temperature | -40~150 | °C |
| R _{th(j-c)} | Thermal resistance, junction to case | 2.5 | °C/W |
| R _{th(j-a)} | Thermal resistance, junction to ambient | 60 | °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 =110°C | 0.005 1 | mA | |
| I _{DRM} | Repetitive peak off-state current | V _D =V _{DRM} , V _D =V _{DRM} , T _j =110°C | 0.005 1 | mA | |
| I _{GT} | Gate trigger current | V _D =12V; R _L = 33 Ω | I | 50 | mA |
| | | | II | 50 | |
| | | | III | 50 | |
| | | | IV | 100 | |
| I _H | Holding current | I _{GT} = 0.5A, Gate Open | 50 | mA | |
| V _{GT} | Gate trigger voltage all quadrant | V _D =12V; R _L = 33 Ω | 1.3 | V | |
| V _{TM} | On-state voltage | I _T = 11A; t _p = 380 μs | 1.55 | V | |

NOTICE:

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