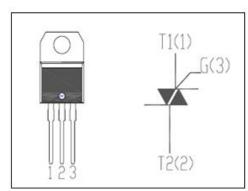


isc Triacs BTA12

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℃)

| 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 =90℃ | 12 | Α |
| I _{TSM} | Non-repetitive peak on-state current t _p =20ms | 120 | Α |
| T _j | Operating junction temperature | 125 | $^{\circ}$ |
| T _{stg} | Storage temperature | -40~150 | $^{\circ}$ |
| R _{th(j-c)} | Thermal resistance, junction to case | 2.3 | °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} ,Tj=25°C V _R =V _{RRM} , Tj=125°C | 0.005 1 | mA |
| I _{DRM} | Repetitive peak off-state current | | V _D =V _{DRM} , Tj=25 °C V _D =V _{DRM} , Tj=125 °C | 0.005 1 | mA |
| I _{GT} | | I | V _D =12V; R _L = 30 Ω | 50 | mA |
| | Gate trigger current | II | | 50 | |
| | | III | | 50 | |
| | | IV | | 100 | |
| lμ | Holding current | | I _{GT} = 0.5A, Gate Open | 50 | mA |
| V_{GT} | Gate trigger voltage all quadrant | | V _D =12V; R _L = 30 Ω | 1.3 | V |
| V _{TM} | On-state voltage | | I _T = 17A; t _p = 380 μ s | 1.55 | V |



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