



BT138-800

T1(1)

-45~150

°C

FEATURES

T_{stg}

- With TO-220 package
- .Glass passivated triacs in a plastic envelope, Intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all four quadrants.
- Minim and re

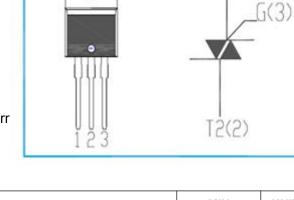
ABSOL

Storage temperature

| Minimum Lot-to-Lot variations for robust device perforr and reliable operation | | T5(5) | T2(5) | |
|---|---------------------------------------|-------|-------|--|
| ABSOLUT | E MAXIMUM RATINGS(Ta=25°C) | | | |
| 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) | 12 | Α | |
| I _{TSM} | Non-repetitive peak on-state current | 95 | Α | |
| P _{GM} | Peak gate power dissipation | 5 | W | |
| P _{G(AV)} | Average gate power dissipation | 0.5 | W | |
| Tj | Operating junction temperature | 125 | °C | |

ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}$ unless otherwise specified)

| SYMBOL | PARAMETER | | CONDITIONS | MIN | MAX | UNIT |
|------------------|-----------------------------------|-----|--|-----|-------------|------|
| I _{RRM} | Repetitive peak reverse current | | V _R =V _{RRM} , V _R =V _{RRM} , Tj=125℃ | | 0.02 0.5 | mA |
| I _{DRM} | Repetitive peak off-state current | | VD=VDRM, VD=VDRM, Tj=125℃ | | 0.02 0.5 | mA |
| I _{GT} | | Ι | − V _D =12V; I _T = 0.1A, R _L = 30 Ω | | 50 | |
| | Gate trigger current | II | | | 50 | |
| | | III | | | 50 | mA |
| | | IV | | | 100 | 1 |
| V _{TM} | On-state voltage | | I _T = 15A | | 1.65 | V |
| Ι _Η | Holding current | | I _{GT} = 0.1A, V _D = 12V | | 60 | mA |
| V _{GT} | Gate trigger voltage | | V_D =12V; R _L = 30 Ω all quadrant | | 1.5 | V |



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