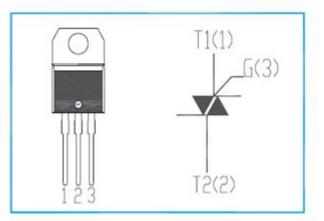


BT138-600

FEATURES

- 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.
- Minimum Lot-to-Lot variations for robust device perforr and reliable operation



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | MIN | UNIT |
|---------------------|---------------------------------------|---------|------|
| VDRM | 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) | 12 | Α |
| I _{TSM} | Non-repetitive peak on-state current | 95 | Α |
| Р _{GM} | Peak gate power dissipation | 5 | W |
| P _{G(AV)} | Average gate power dissipation | 0.5 | W |
| Tj | Operating junction temperature | 125 | °C |
| T _{stg} | Storage temperature | -45~150 | °C |

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

| SYMBOL | PARAMETER | | CONDITIONS | MIN | MAX | UNIT |
|------------------|-------------------------|------------|--|-----|-------------|------|
| I _{RRM} | Repetitive peak revers | e current | V _R =V _{RRM} , V _R =V _{RRM} , Tj=125℃ | | 0.02 0.5 | mA |
| I _{DRM} | Repetitive peak off-sta | te current | V _D =V _{DRM} , V _D =V _{DRM} , Tj=125℃ | | 0.02 0.5 | mA |
| I _{GT} | Gate trigger current | Ι | V _D =12V; I _T = 0.1A, R _L = 30 Ω | | 35 | |
| | | II | | | 35 | ~ ^ |
| | | III | | | 35 | mA |
| | | IV | | | 70 | |
| V _{TM} | On-state voltage | | I⊤= 15A | | 1.65 | V |
| I _H | 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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