

TIGER ELECTRONIC CO.,LTD

Product specification

8A TRIACS

BTA08-600BF

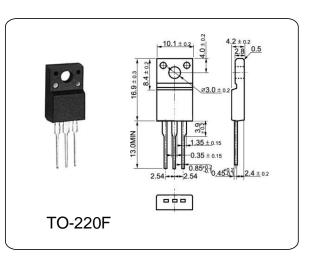
GENERAL DESCRIPTION

Available either in through-hole or surface-mount packages, the BTA08 - 600BF triac series is suitable for general purpose AC switching. They 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, ...

The snubberless versions (BTA/BTB...W series) are specially recommended for use on inductive loads, thanks to their high commutation performances. By using an internal ceramic pad, the BTA series provides voltage insulated tab (rated at 2500V RMS) complying with UL standards.

| ABSOLUTE WANIWOW RATINGS (Ta = 25 C) | | | | | | | |
|--------------------------------------|----------------------|---------|------|--|--|--|--|
| PARAMETER | Symbol | Value | Unit | | | | |
| Repetitive peak off-state voltages | V _{drm} | 600 | V | | | | |
| peak off-state reverse voltages | V _{RRM} 600 | | V | | | | |
| RMS on-state current | I _T | 8.0 | A | | | | |
| Non-repetitive peak on-state current | I _{TSM} | 84 | A | | | | |
| Max. Operating Junction Temperature | T _j | 110 | °C | | | | |
| Storage Temperature | T _{stg} | -45~150 | °C | | | | |

ABSOLUTE MAXIMUM RATINGS (Ta = $25 \degree$ C)



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

| PARAME | TER | Symbol | Test Conditions | Min. | Max | Unit |
|------------------------------------|-------|-------------------|--|------|------|------|
| Repetitive peak off-state voltages | | V_{drm} | I _D =0.1mA | 600 | — | V |
| Repetitive peak off-state current | | I _{DRM} | V _{DRM} =520V | | 10 | uA |
| On-state voltag | е | V _{TM} | I _T =11A | | 1.55 | V |
| Holding current | | I _H | I _T =0.5A,I _{GT} =20mA | | 50 | mA |
| Gate trigger Current | T2+G+ | - I _{GT} | V _{AK} =12V, R _L =30Ω | | 50 | - mA |
| | T2+G- | | | _ | 50 | |
| | T2-G- | | | _ | 50 | |
| | T2-G+ | | | | 100 | |
| Gate trigger Voltage | T2+G+ | | $V_{D}=12V, R_{L}=30 \Omega$ | | 1.3 | v |
| | T2+G- | | | | 1.3 | |
| | T2-G- | V _{GT} | | | 1.3 | |
| | T2-G+ | 1 | | | 1.3 | 1 |