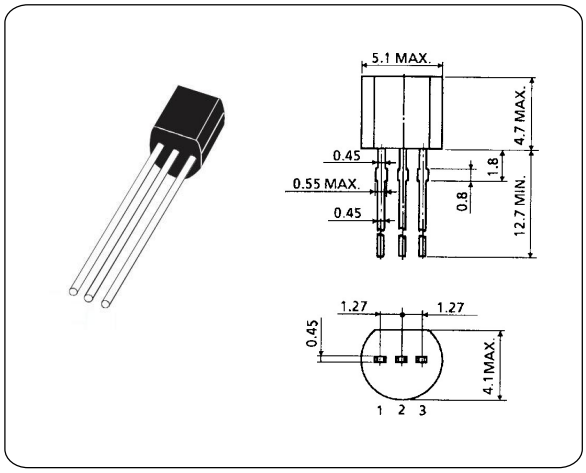
# TIGER ELECTRONIC CO.,LTD

## Silicon Bidirectional Triode Thyristors — STN1A60/80

### GENERAL DESCRIPTION

Designed for use in solid state relays, MPU interface, TTL logic and any other light industrial or consumer application. Supplied in an inexpensive TO - 92 package which is readily adaptable for use in automatic insertion equipment.

| Parameter | Symbol | Typ | | Unit |
|---|---|---|---|---|
| | | STN1A60 | STN1A80 | |
| Repetitive peak off-state voltages | $V_{DRM}$ $V_{RRM}$ | 600 | 800 | V |
| RMS on-state current | $I_{T(RMS)}$ | 1.0 | | A |
| Non-repetitive peak on-state current | $I_{TSM}$ | 10 | | A |
| Max. Operating Junction Temperature | $T_j$ | 110 | | °C |
| Storage Temperature | $T_{stg}$ | -45~150 | | °C |




| Parameter | | Symbol | Test Conditions | Min | Typ | | Max | Unit |
|---|---|---|---|---|---|---|---|---|
| | | | | | STN1A60 | STN1A80 | | |
| Repetitive peak off-state voltages | | $V_{DRM}$ $V_{RRM}$ | | — | 600 | 800 | — | V |
| RMS on-state current | | $I_{T(RMS)}$ | all conduction angles | — | 1.0 | | — | A |
| On-state voltage | | $V_T$ | $I_T$=1.5 A | — | — | | 1.60 | V |
| Holding current | | $I_H$ | $V_D$ =12 V; $I_{GT}$=10 mA | — | — | | 5 | mA |
| Gate trigger current | T2+G+ | $I_{GT}$ | $V_D$ =6.0 V; $R_L$= 10 Ω | — | — | | 5.0 | mA |
| | T2+G- | | | — | — | | 5.0 | |
| | T2-G- | | | — | — | | 5.0 | |
| | T2-G+ | | | — | — | | 12 | |
| Gate trigger voltage | | $V_{GT}$ | $V_D$ =6.0 V; $R_L$= 10 Ω | — | 0.5 | | 1.8 | V |