# JST08E-1200CW 8A TRIAC

Rev.A.1.1

## DESCRIPTION:

The JST08E-1200CW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. JST08E-1200CW snubberless triac is especially recommended for use on inductive loads. Package TO-263 is RoHS compliant.

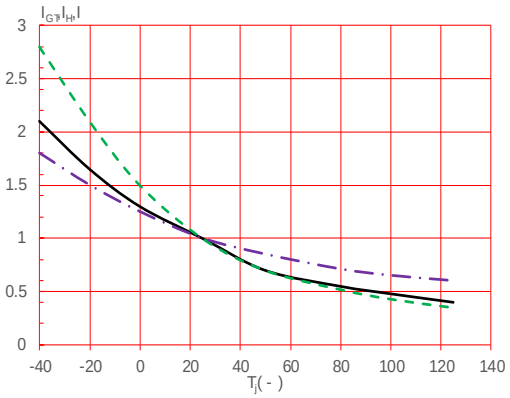
## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Storage junction temperature range | $T_{stg}$ | -40-150 | |
| Operating junction temperature range | $T_j$ | -40-125 | |
| Repetitive peak off-state voltage ($T_j$=25 ) | $V_{DRM}$ | 1200 | V |
| Repetitive peak reverse voltage ($T_j$=25 ) | $V_{RRM}$ | 1200 | V |
| RMS on-state current ($T_C$ 01 07 ) | $I_{T(RMS)}$ | 8 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=20ms , $T_j$=25 ) | $I_{TSM}$ | 80 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=16.6ms , $T_j$=25 ) | | 88 | |
| $I^2t$ value for fusing ($t_p$=10ms , $T_j$=25 ) | $I^2t$ | 32 | $A^2s$ |
| Critical rate of rise of on-state current ($I_G$=2× $I_{GT}$ , f=100Hz , $T_j$=125 ) | dI/dt | 100 | A s |

JST08E-1200CW

FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature



## ORDERING INFORMATION

| Order code | Voltage $V_{DRM}/V_{RRM}$ (V) | IGT(mA) | Package | Base qty. (pcs) | Delivery mode |
|---|---|---|---|---|---|
| | | H- I- J | | | |
| JST08E-1200CW | 1200 | 35 | TO-263 | 50 | Tube |
| JST08E-1200CW-TR | | | | 800 | Tape & Reel |

Document Revision History

| Date | Revision | Changes |
|---|---|---|
| Apr.11, 2023 | A.1.0 | Last updated |
| Oct.20, 2025 | A.1.1 | Revise PACKAGE MECHANICAL DATA |

# DELIVERY MODE

