



JST20E-1200CW 20A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST20E-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. JST20E-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 ($T_j=25^\circ\text{C}$) | V_{DRM} | 1200 | V |

| | | | |
|--|----------|---|----|
| Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.8) | V_{pp} | 4 | kV |
|--|----------|---|----|

S.32 re f(>BDC /C2_1 1 Tf35 -0.002 T)7olesepetmbol0 Tw 3.61/S.32 re f(>BDC /C2 -0.09T
ELECTRICAL CHARACTERISTICS ($T_j=25$ unless otherwi753.48 0.00pec0.00ified)

Smbol

FIG.1: Maximum power dissipation versus RMS on-state current

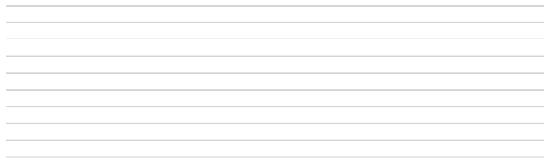


FIG.2: RMS on-state current versus case temperature

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

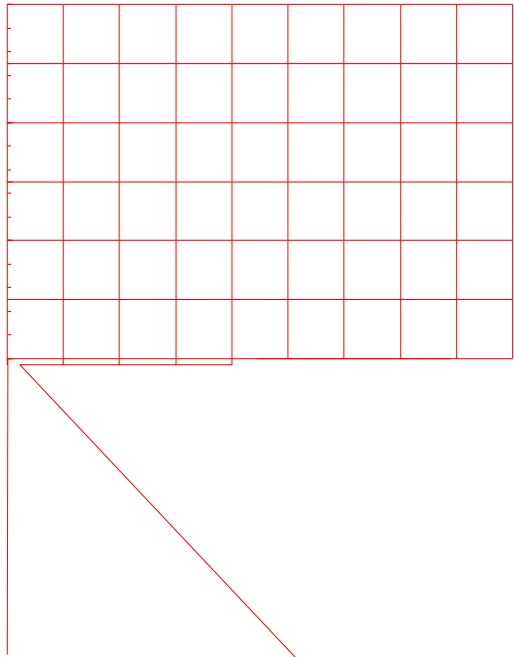


FIG.8: Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

ORDERING INFORMATION

| Order code | Voltage V_{DRM}/V_{RRM} (V) | IGT(mA) | Package | Base qty. (pcs) | Delivery mode |
|------------------|----------------------------------|---------|---------|--------------------|---------------|
| | | - - | | | |
| JST20E-1200CW | 1200 | 35 | TO-263 | 50 | Tube |
| JST20E-1200CW-TR | | | | 800 | Tape & Reel |

Document Revision History

| Date | Revision | Changes |
|--------------|----------|--------------------------------|
| Apr.12, 2023 | A.1.0 | Last updated |
| Oct.20, 2025 | A.1.1 | Revise PACKAGE MECHANICAL DATA |

DELIVERY MODE

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