



JST12E-1200SW 12A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST12E-1200SW 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. JST12E-1200SW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. Package TO-263 is RoHS compliant.

ORDERING INFORMATION

| | | | | | | | |
|-----------------------------------|----------|-----------------------|-----------|----------|--------------|------------------------|-------------------------------|
| | J | ST | 12 | E | -1200 | SW | -/ |
| JieJie Microelectronics Co., Ltd. | | Triacs IT(RMS):12A | | E:TO-263 | | SW:IGT1-3 010mA | Blank:Tube -TR:Tape & Reel |
| | | | | | | 1200:VDRM /VRRM 11200V | |

MARKING

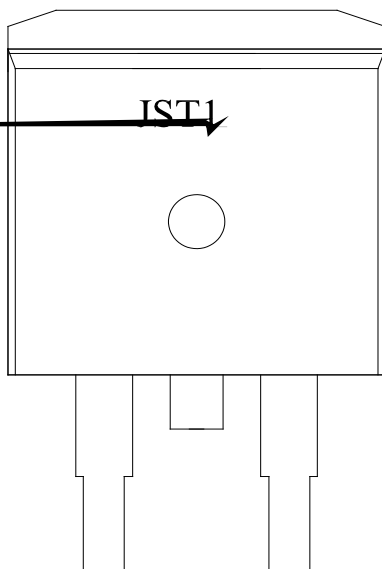


FIG.1: Maximum power dissipation versus RMS on-state current

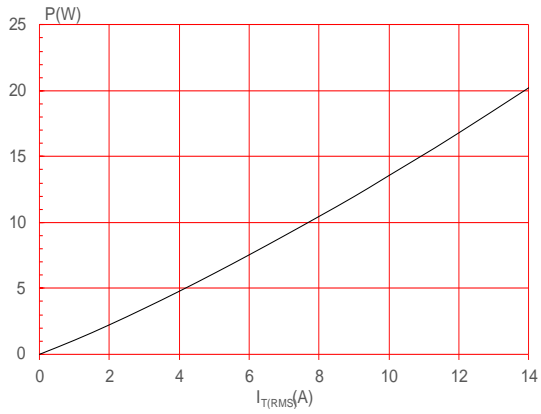


FIG.2: RMS on-state current versus case temperature

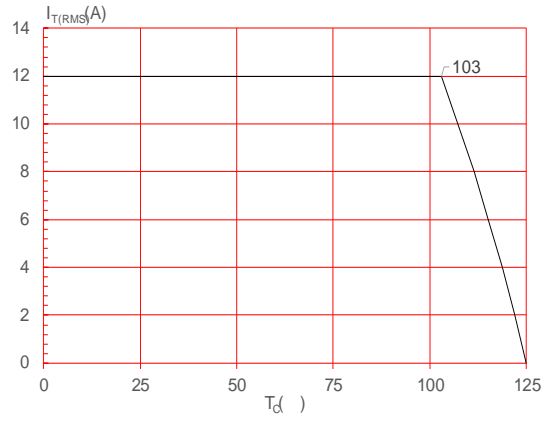


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4,copper WKL FNQHVV P IXOO F\FOH

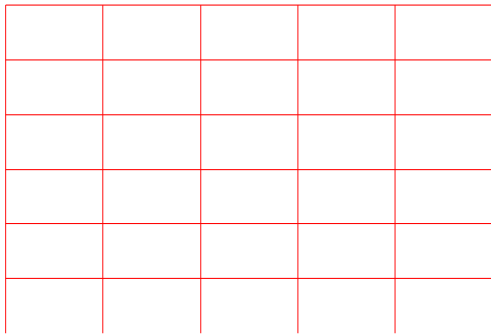


FIG.4: Surge peak on-state current versus number of cycles

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

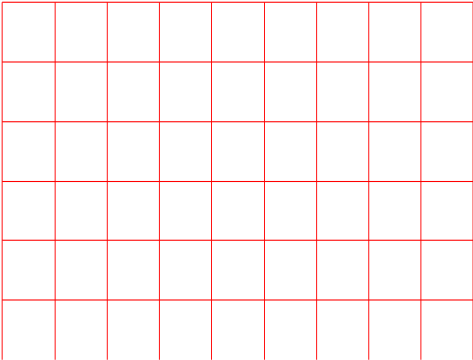
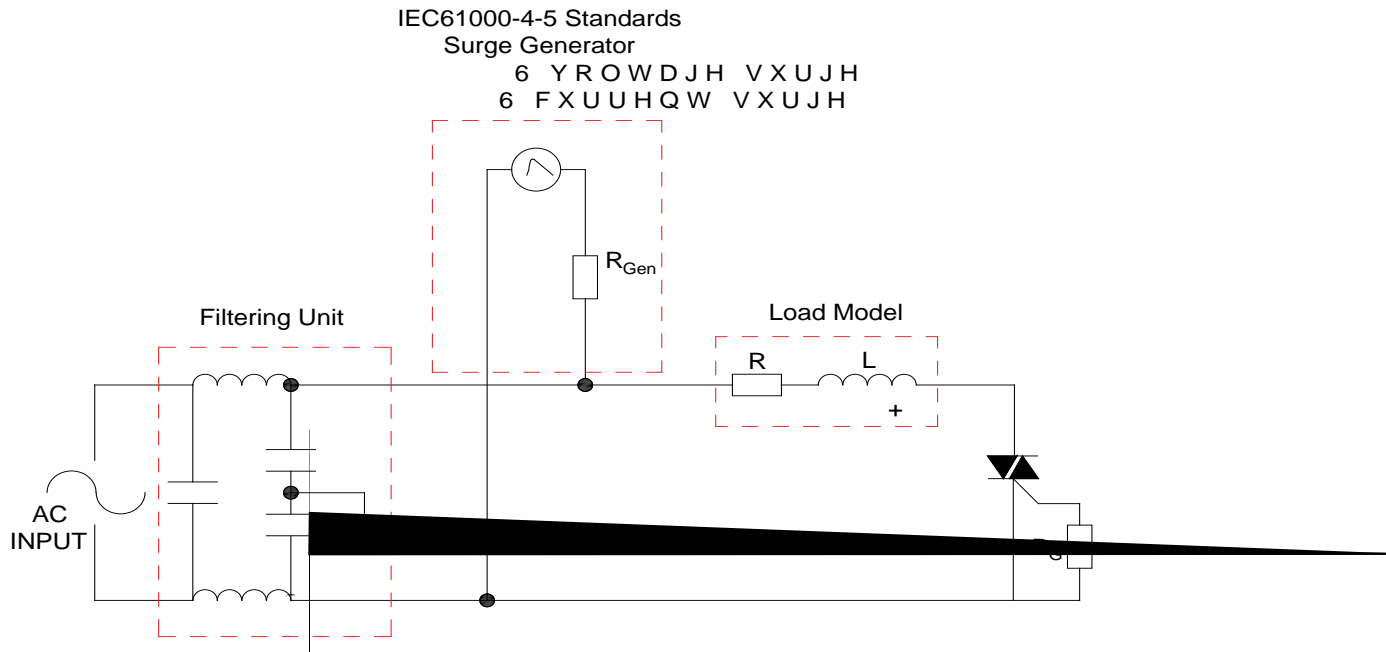


FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



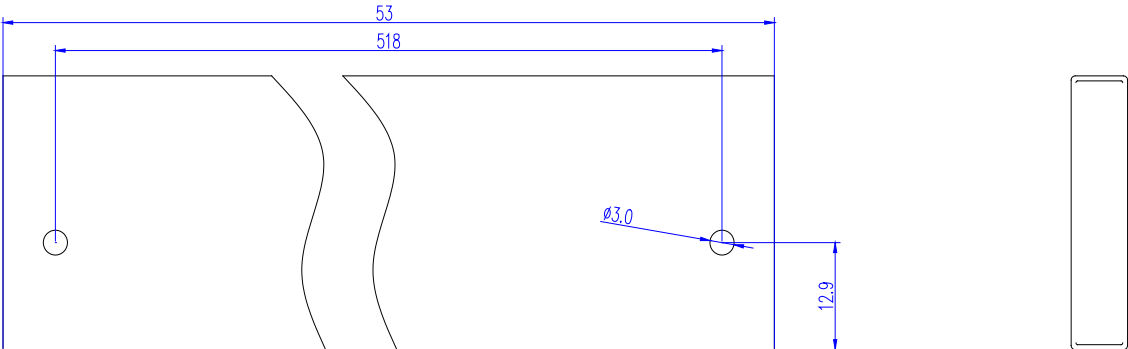
ORDERING INFORMATION

| Order code | Voltage V_{DRM}/V_{RRM} (V) | IGT(mA) | Package | Base qty. (pcs) | Delivery mode |
|------------------|----------------------------------|---------|---------|--------------------|---------------|
| | | H- I- J | | | |
| JST12E-1200SW | 1200 | 10 | TO-263 | 50 | Tube |
| JST12E-1200SW-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



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