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 co0.8n4]TJ(c)-2 (o)4 (0.8n4]TJ(nan4]TJnn4]TJt2 (5.13 0 Td ( )Tj 9Tj

ORDERING INFORMATION

J ST 12 E -1200 SW -/

- J: JieJie Microelectronics Co., Ltd.
- ST: Triacs
- 12: $I_{T(RMS)}$:12A
- E: E:TO-263
- -1200: 1200:V_{DRM} /V_{RRM} 11200 V
- SW: SW:I_{GT1-3} 010mA
- -/: Blank:Tube; -TR:Tape &Reel

MARKING

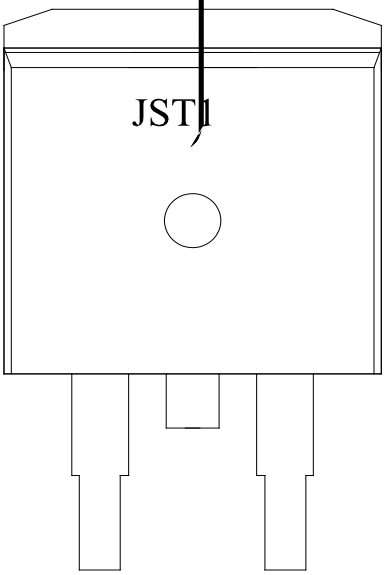


FIG.1: Maximum power dissipation versus RMS on-state current

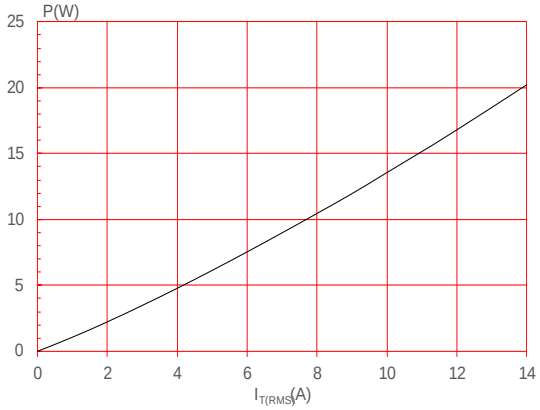


FIG.2: RMS on-state current versus case temperature

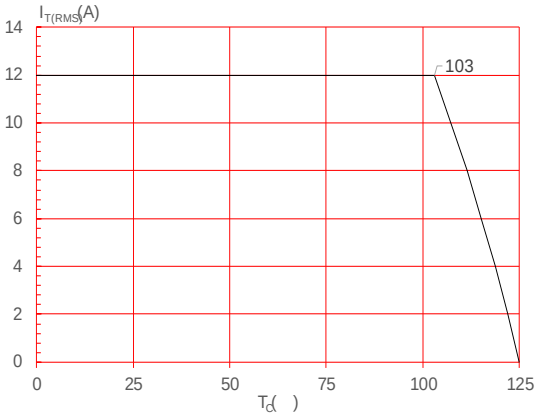


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4,copper

W K L F N Q H V V P I X O O F \ F O H

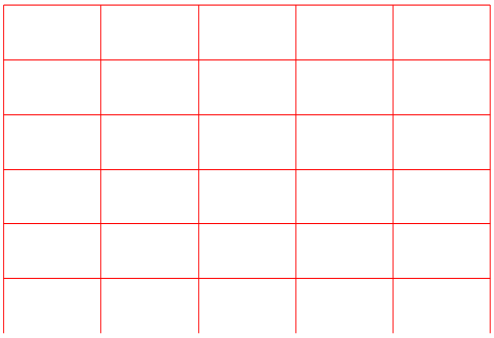


FIG.4: Surge peak on-state current versus number of cycles

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

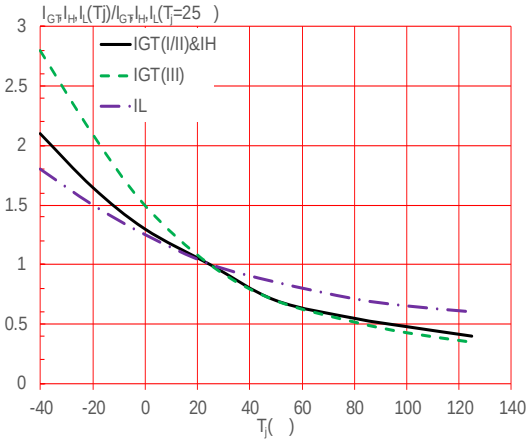
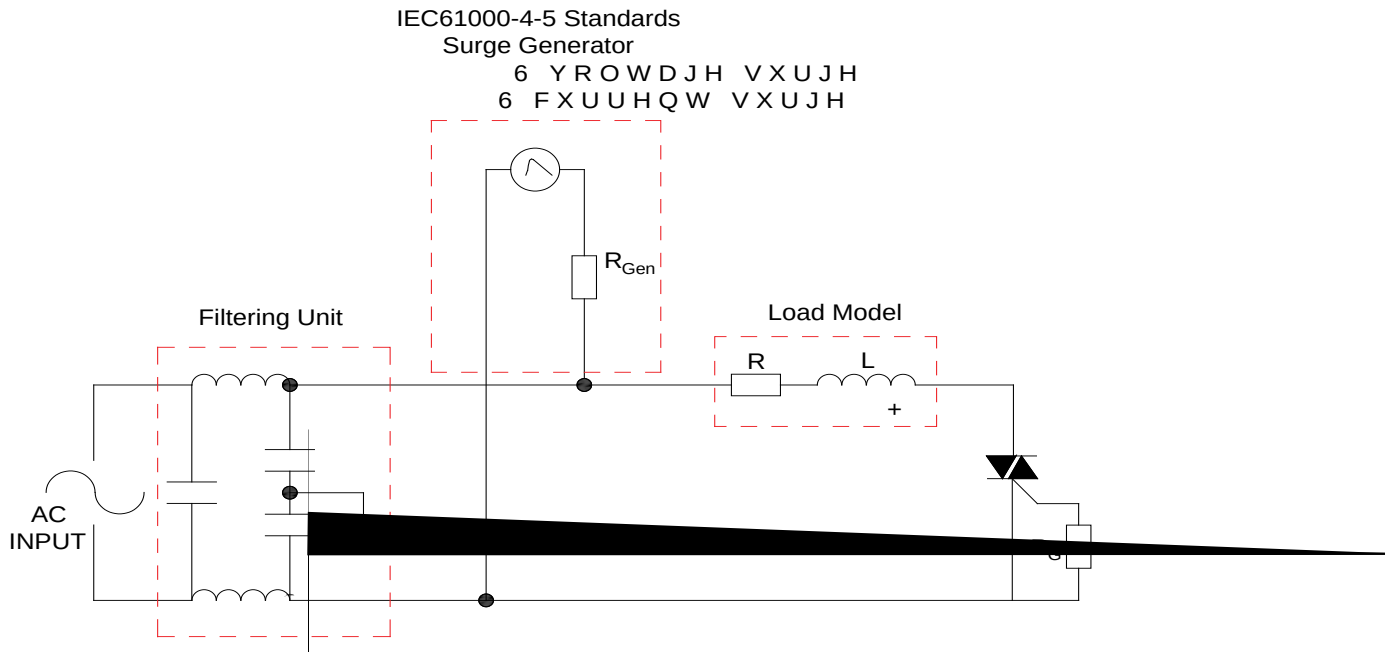


FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



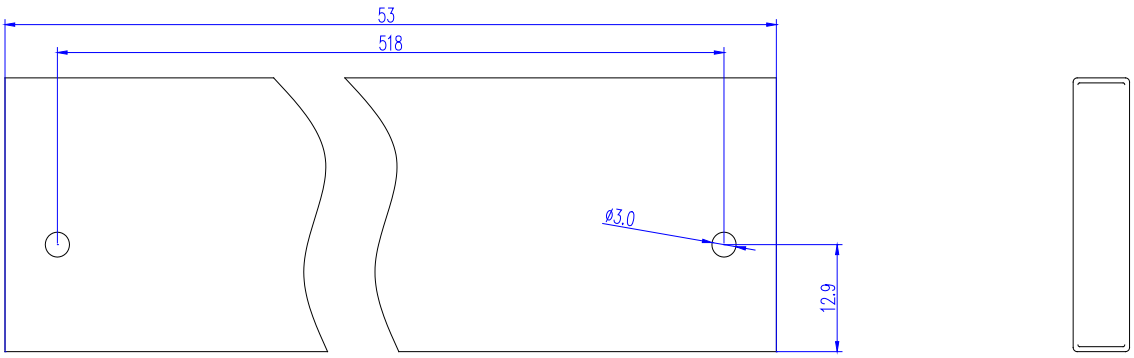
ORDERING INFORMATION

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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