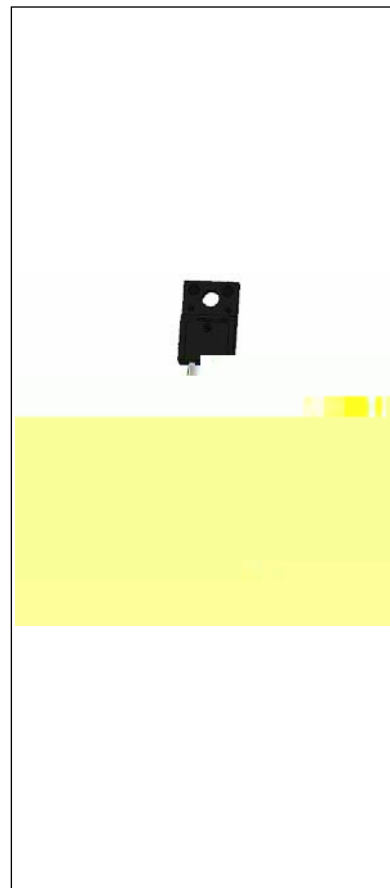


DESCRIPTION:

The JST04F-600SW 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. JST04F-600SW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. By using an external plastic package, JST04F-600SW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

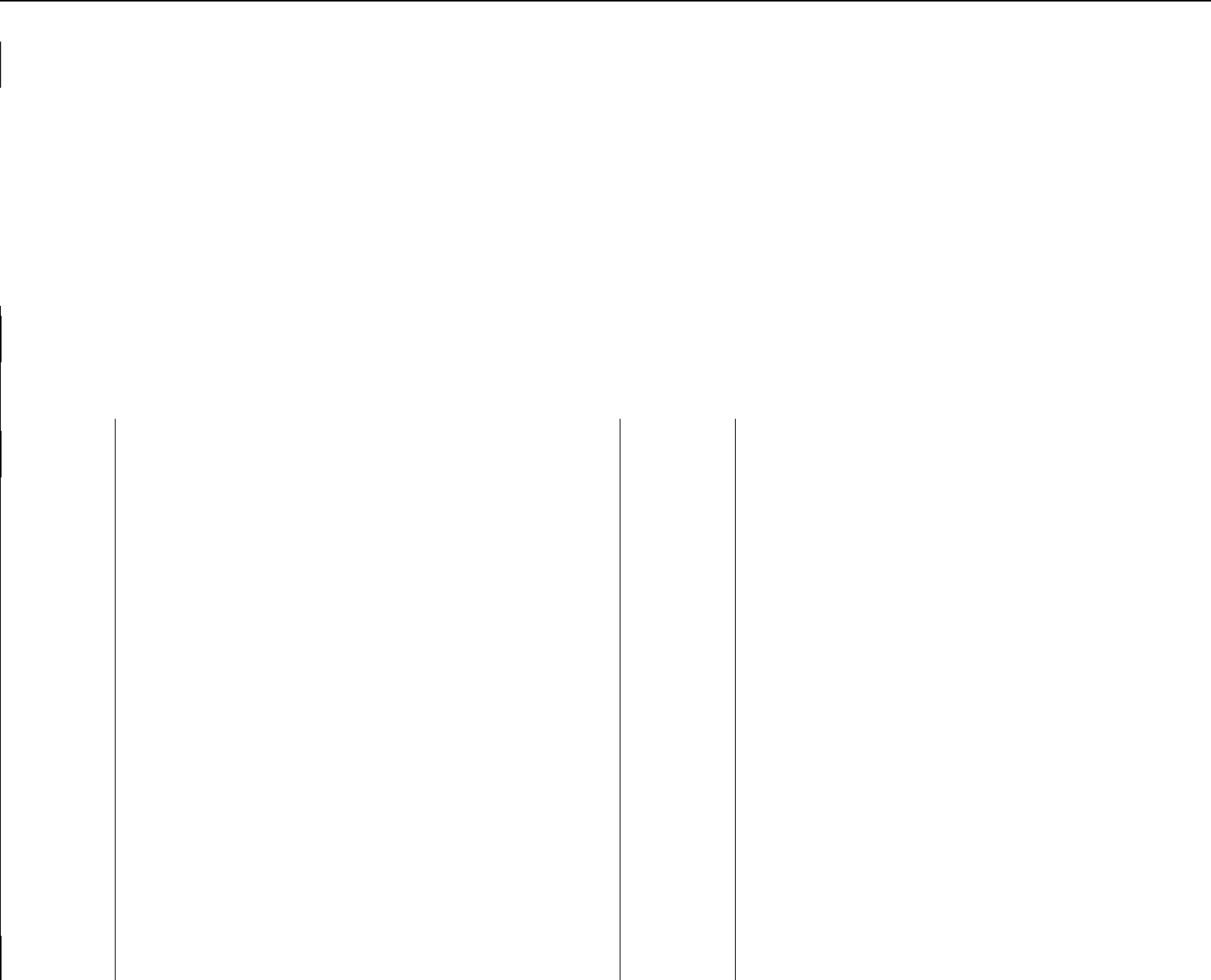
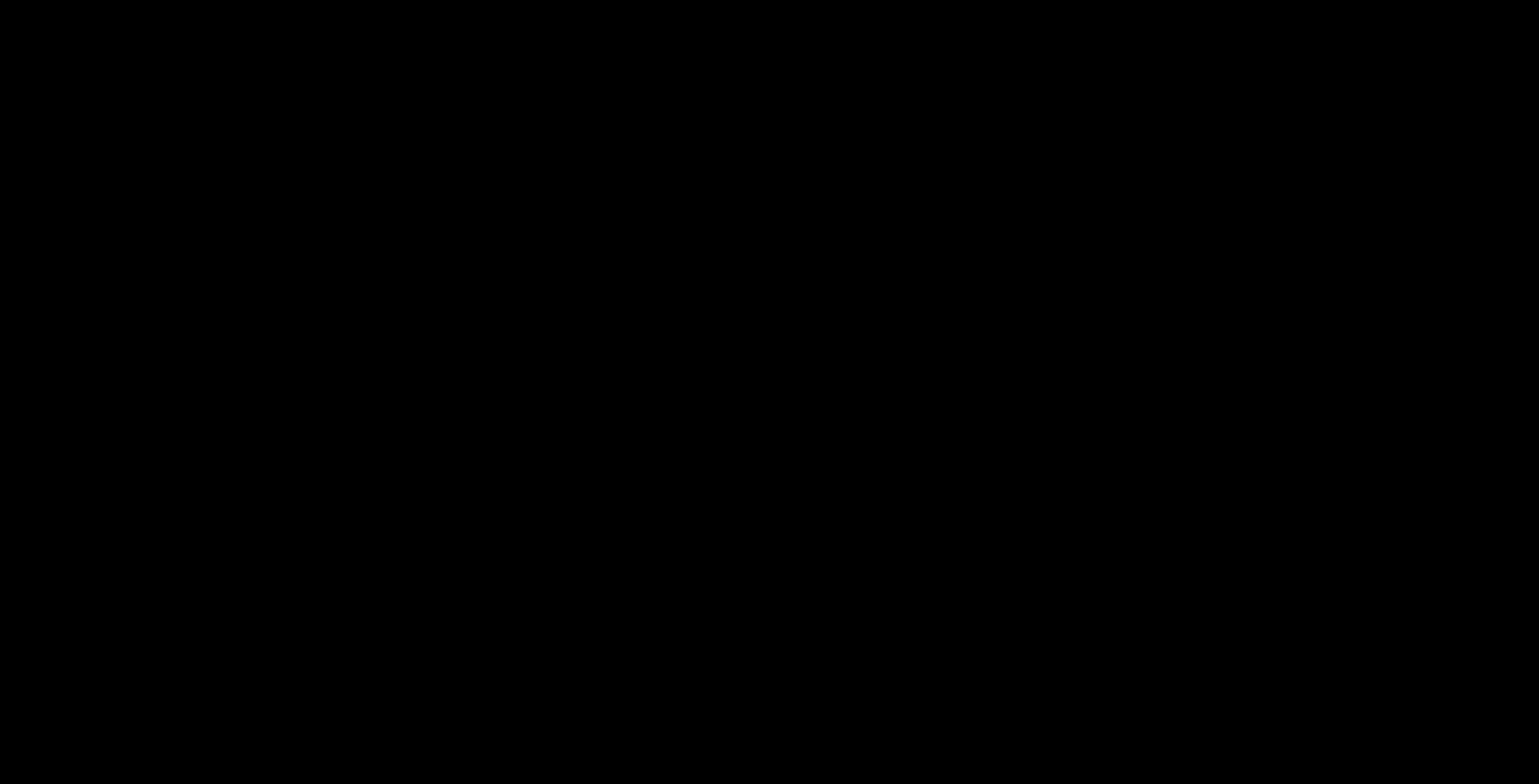


MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	600	V
$I_{GT} / /$	10/10/10	mA

ABSOLUTE MAXIMUM RATINGS

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}	600	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	600	V
RMS on-state current ($T_C \leq 97^\circ\text{C}$)	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle, $t_p=20\text{ms}$, $T_j=25^\circ\text{C}$)	I_{TSM}	40	A
Non repetitive surge peak on-state current (full cycle, $t_p=16.6\text{ms}$, $T_j=25^\circ\text{C}$)		44	
I^2t value for fusing ($t_p=10\text{ms}$, $T_j=25^\circ\text{C}$)	I^2t	8	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100\text{Hz}$, $T_j=125^\circ\text{C}$)	di/dt	100	$\text{A}/\mu\text{s}$



	TEL +86-513-68528666		http://www.jjwdz.com
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ORDERING INFORMATION

J	ST	04	F	-600	SW
JieJie Microelectronics Co., Ltd.	Triacs	IT(RMS):4A	F:TO-220F(Ins)	600:VDRM /VRRM ≥ 600V	SW:IGT1-3 ≤ 10mA

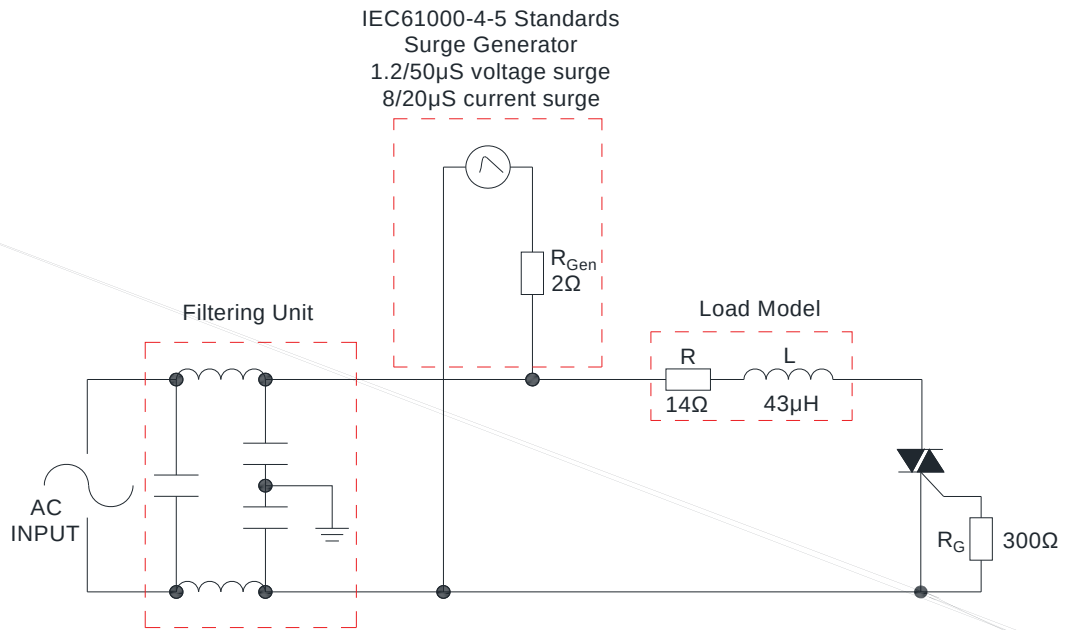
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FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



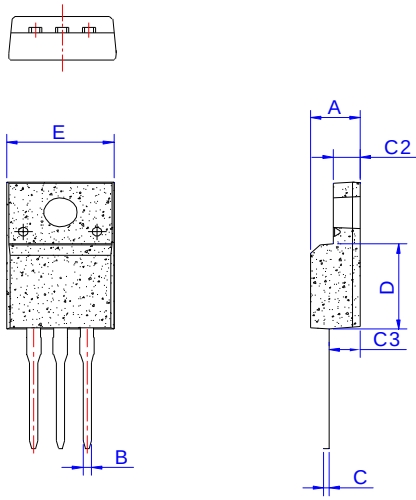


ORDERING INFORMATION

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated
Jul.05, 2024	A.1.1	Renew dl/dt
Oct.10, 2025	A.1.2	Revise PACKAGE MECHANICAL DATA



PACKAGE MECHANICAL DATA





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