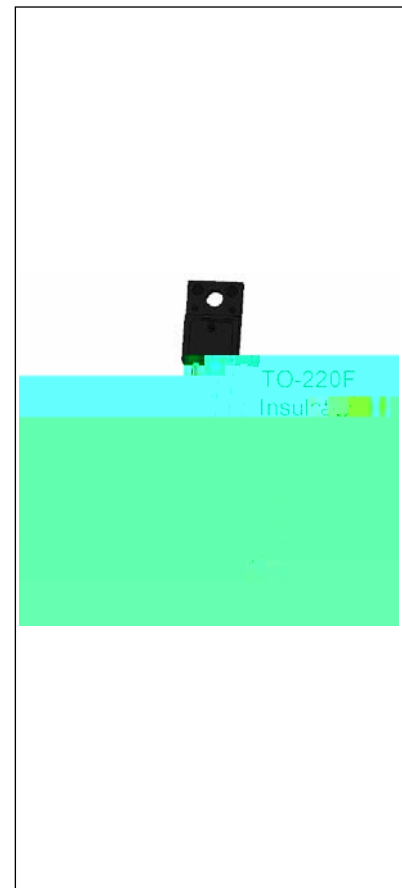


## DESCRIPTION:

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 ( $T_c = 97^\circ\text{C}$ )	$I_{T(RMS)}$	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	$\text{A}^2\text{s}$
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	$\text{A}/\mu\text{s}$





## ORDERING INFORMATION

<u>J</u>	<u>ST</u>	<u>04</u>	<u>F</u>	<u>-600</u>	<u>SW</u>
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}:4A$	F:TO-220F(Ins)	600:VDRM/VRRM 600V	SW:IGT1-3 10mA

## MARKING

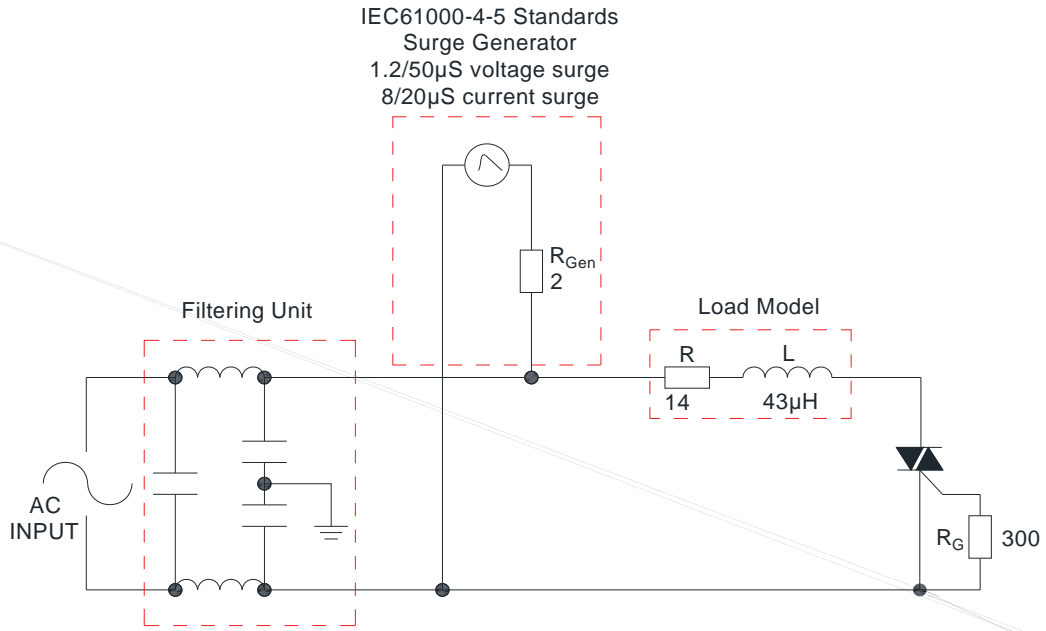
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FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



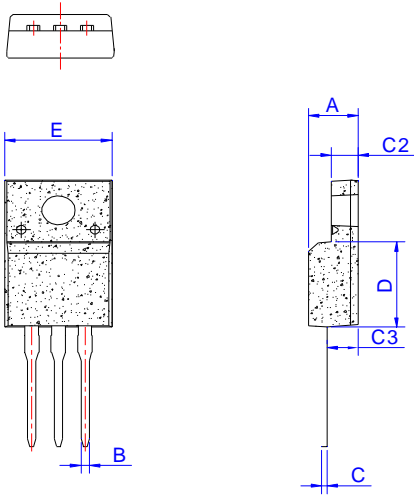


## ORDERING INFORMATION


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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