JST04H-600TW 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST04H-600TW 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. JST04H-600TW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. From T2 terminals to external heatsink.
Package TO-251 is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage [illegible]	[illegible]	[illegible]	[illegible]

Peak gate power	P_{GM}	10	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	4	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33	- -	MAX.	5	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	V_D =V_{DRM} T_j =125 R_L =3.3k	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}	-	MAX.	10	mA
				15	
I_H	I_T =100mA		MAX.	10	mA
dV/dt	V_D=400V Gate Open T_j =125		MIN.	150	V s
(dI/dt)c	(dV/dt)c=10V s, T_j=125		MIN.	1	A/ms
t_{on}	I_G=10mA I_A=200mA I_R=20mA T_j=25		TYP.	2	s
t_{off}				20	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX .)	Unit
V_{TM}	I_{TM} =5A t_p=380 s	T_j=25	1.65	V
V_{TO}	Threshold voltage	T_j=125	0.799	V
R_D	Dynamic resistance	T_j=125	151	P
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	A
I_{RRM}		T_j=125	0.2	mA

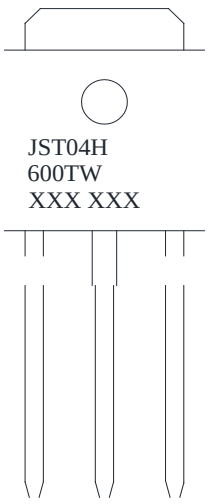
THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	4.5	/W
$R_{th(j-a)}$	junction to ambient (AC)	120	/W

ORDERING INFORMATION

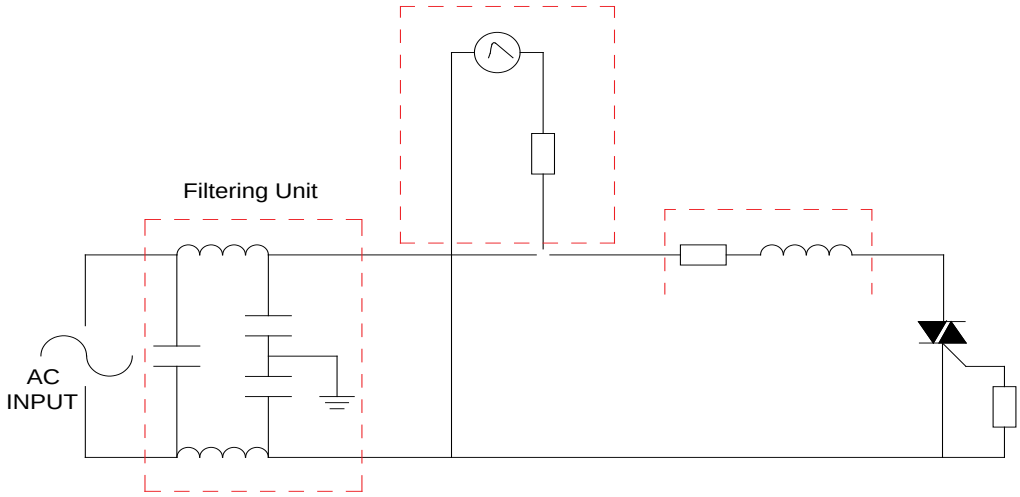
J	ST	04	H	-600	TW
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}$:4A	H:TO-251	600:V_{DRM} /V_{RRM} 1600 V	TW:I_{GT1-3} 05mA

MARKING



TEd [2w 9 0 0 9 56.64 39.6 Tm8T0 1(a0CS0 cs 0 scn /TT0 1 Tf 15.96 0 0 15.96 56.64 795.24 Tm [(JS)-3(T)2(04H)-8(-)2(600)-7.9(T)0.9(W

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



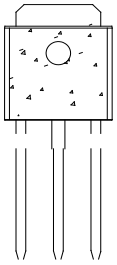
ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST04H-600TW	600	5	TO-251	80	Tube

Document Revision History

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



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