JST136C-600T 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST136C-600T 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. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	C2-0.0hC44 T

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	ALL	MAX.	5	mA
V_{GT}		ALL	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=125 R_L=3.3kΩ	ALL	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	-	MAX.	10	mA
		-		15	
I_H	I_T=100mA		MAX.	5	mA
dV/dt	V_D=400V Gate Open T_j=110		MIN.	30	V/μs
(dV/dt)c	(dI/dt)c=1.8A/ms, T_j=110		MIN.	1	V/μs
t_{on}	I_G=10mA I_A=200mA I_R=20mA T_j=25		TYP.	1	μs
t_{off}				12	

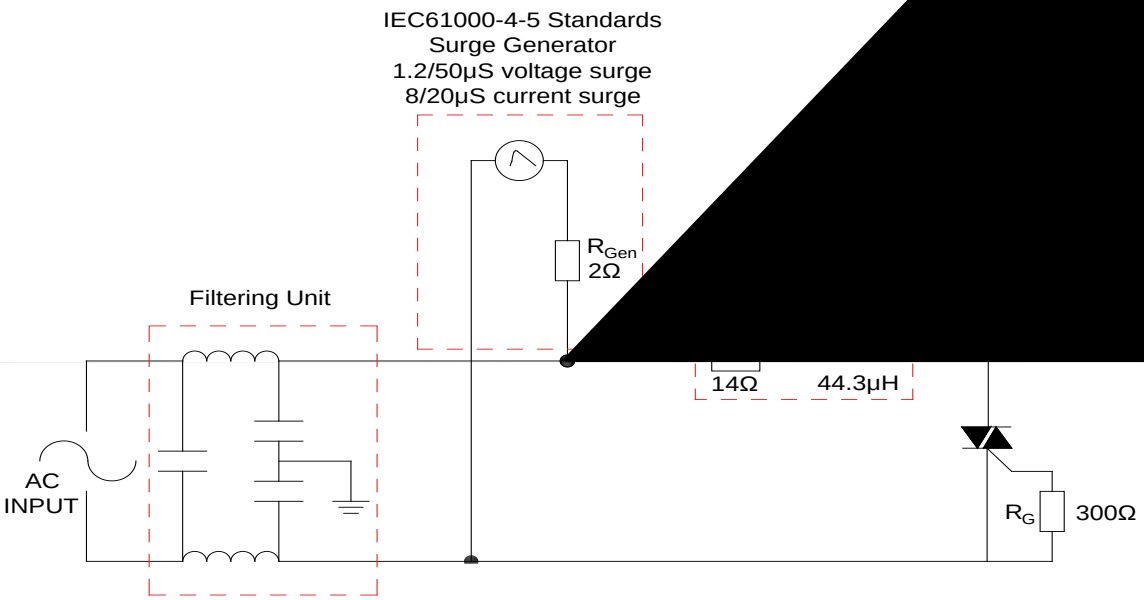
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=5A t_p=380μs	T_j=25	1.7	V
V_{TO}	Threshold voltage	T_j=125	0.94	V
R_D	Dynamic resistance	T_j=125	124	mΩ
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=125	0.3	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	2.3	

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



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		H- I- J- K			
JST136C-600T	**600**	**5**	**TO-220C**	**50**	**Tube**

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

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