JST06A-600B 6A TRIAC

T, pet(ef)-TJ 0 Tc 0 Tw 24.4.89Td ( )Tj EMC /P <</MCID 3 >15BDC

DESCRIPTION:

The JST06A-600B 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. By using an internal ceramic pad, JST06A-600B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906).4 (N)7 (.9Tc -0)10.00248.8 Td ( )TP -0.006 Tc 0.006 Tw 1.7 (0 Td [( )ac)-e r

-652920As sMi ontiic06

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.	50	mA
				70	
V_{GT}		ALL	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=125 R_L=3.3k	ALL	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	- -	MAX.	70	mA
				80	
I_H	I_T=200mA		MAX.	60	mA
dV/dt	V_D=400V Gate Open T_j=125		MIN.	600	V s
(dV/dt)c	(dI/dt)c=2.7A/ms, T_j=125		MIN.	10	9 V
t_{on}	I_G=80mA I_A=400mA I_R=40mA T_j=25		TYP.	3	s
t_{off}				30	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=8.5A t_p=380 s	T_j=25	1.5	V
V_{TO}	Threshold voltage	T_j=125	0.82	V
R_D	Dynamic resistance	T_j=125	57	m
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

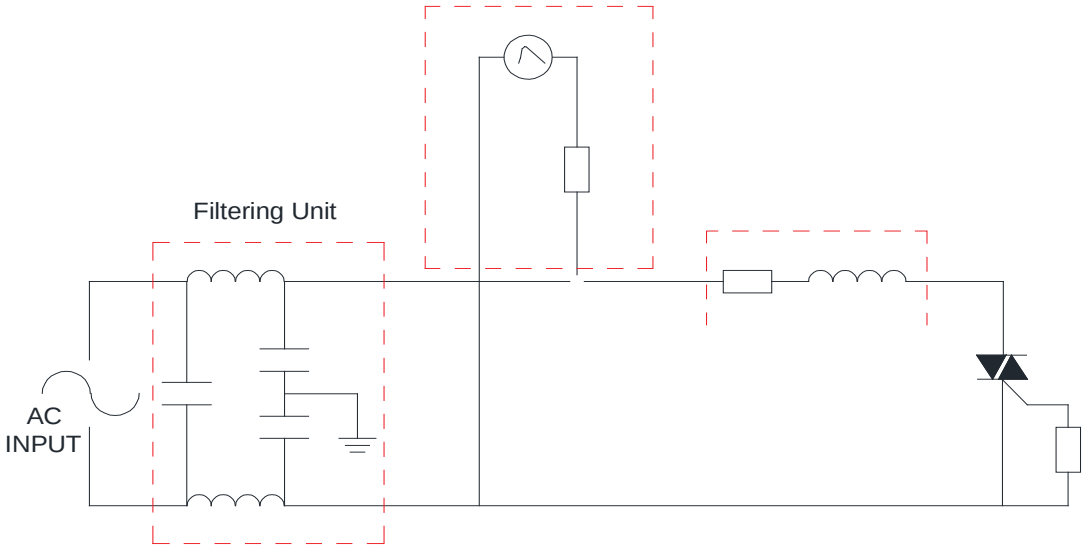
Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	3	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W

ORDERING INFORMATION

J ST 06 A -600 B

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

IEC61000-4-5 Standards
Sur 198.09Tw 1 5 Standards



ORDERING INFORMATION

Order code Ⅲ	Voltage V_{DRM}/V_{RRM} (V) Ⅱ	IGT(mA) Ⅰ - -		Package	Base qty. (pcs) Ⅳ	Delivery mode
JST06A-600B	600	50	70	TO-220A(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.13, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA

