



## JST136C-600E 4A TRIAC

Rev.A.1.0

### DESCRIPTION:

The JST136C-600E 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
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I <sub>GT</sub>	V <sub>D</sub> =12V R <sub>L</sub> =33	- -	MAX.	10	mA
				25	
V <sub>GT</sub>		ALL	MAX.	1	V
V <sub>GD</sub>	V <sub>D</sub> =V <sub>DRM</sub> T <sub>j</sub> =125 R <sub>L</sub> =3.3K	ALL	MIN.	0.2	V
I <sub>L</sub>	I <sub>G</sub> =1.2I <sub>GT</sub>	-	MAX.	20	mA
		-		30	
I <sub>H</sub>	I <sub>T</sub> =100mA		MAX.	25	mA
dV/dt	V <sub>D</sub> =400V Gate Open T <sub>j</sub> =110		MIN.	300	V s
(dV/dt) <sub>c</sub>	(dI/dt) <sub>c</sub> =1.8A/ms, T <sub>j</sub> =110		MIN.	6	
t <sub>on</sub>	I <sub>G</sub> =40mA I <sub>A</sub> =200mA I <sub>R</sub> =20mA T <sub>j</sub> =25		TYP.	1.5	s
t <sub>off</sub>				15	

STATIC CHARACTERISTICS

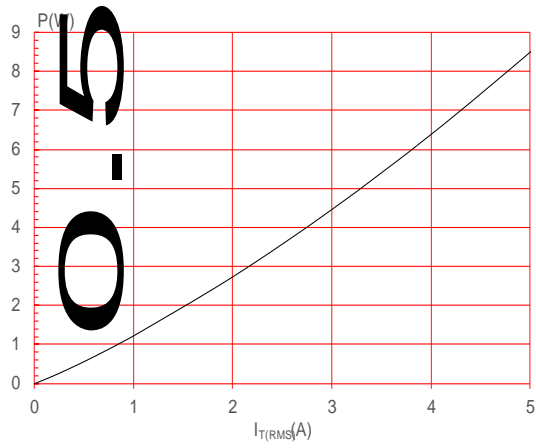
Symbol	Parameter		Value(MAX.)	Unit
V <sub>TM</sub>	I <sub>TM</sub> =5A t <sub>p</sub> =380 s	T <sub>j</sub> =25	1.7	V
V <sub>TO</sub>	Threshold voltage	T <sub>j</sub> =125	0.94	V
R <sub>D</sub>	Dynamic resistance	T <sub>j</sub> =125	124	
I <sub>DRM</sub>	V <sub>D</sub> =V <sub>DRM</sub> V <sub>R</sub> =V <sub>RDM</sub>	T <sub>j</sub> =25	5	A
I <sub>RDM</sub>		T <sub>j</sub> =125	0.3	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
R <sub>th(j-c)</sub>	junction to case (AC)	2.3	/W
R <sub>th(j-a)</sub>	junction to ambient (AC)	60	/W



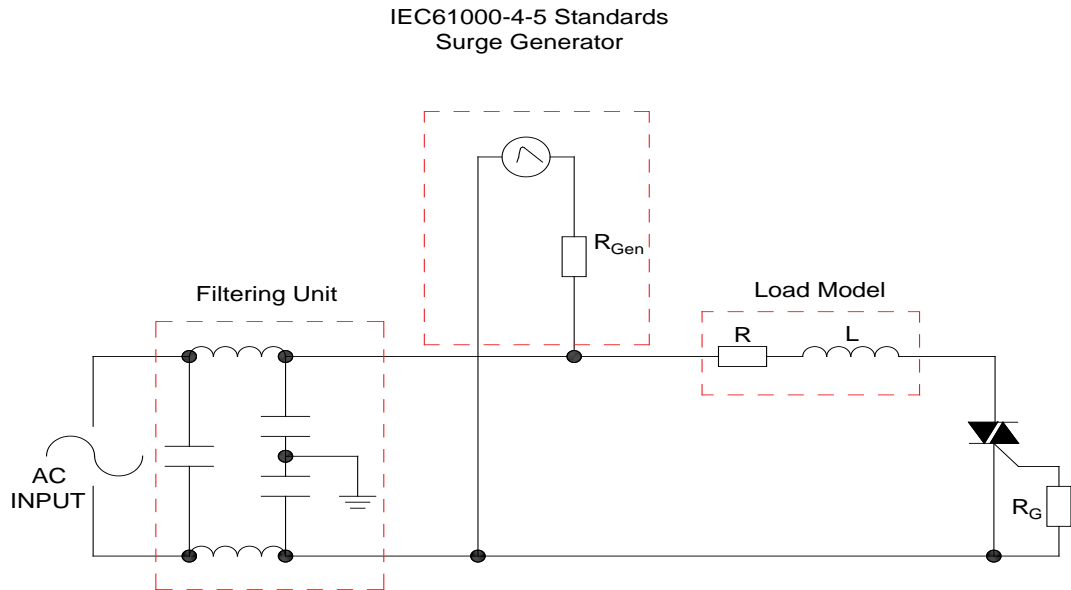
**FIG.1** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature



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



## SHAPING AND SOLDERING PARAMETERS

Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie.

**ORDERING INFORMATION**

Order code	Voltage V <sub>DRM</sub> /V <sub>RRM</sub> (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
<b>JST136C-600E</b>	<b>600</b>	<b>10</b>	<b>25</b>	<b>TO-220C</b>	<b>50</b>	<b>Tube</b>

**Document Revision History**

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated

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