



## JST04H-600BW 4A TRIAC

Rev.A.1.1

### DESCRIPTION:

The JST04H-600BW 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-600BW snubberless triac is especially recommended for use on inductive loads. From T2 terminals to external heatsink. Package TO-251 is RoHS compliant.

### MAIN FEATURES

### ABSOLUTE MAXIMUM RATINGS

P 0Let-3(er13.085 0 Td ( )4.8C /P <</MCID 6 >>BDC 0.004 15Tc -0.002 Tw (

Peak pulse voltage ( $T_j=25$ ; non-repetitive, off-state; FIG.7)	$V_{pp}$	4	kV
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**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
$V_{GT}$		- -	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.	70	mA
				80	
$I_H$	$I_T=100mA$		MAX.	60	mA
dV/dt	$V_D=400V$ Gate Open $T_j=125$		MIN.	2000	V/ $\mu s$
(dI/dt)c	(dV/dt)c=20V/ $\mu s$ , $T_j=125$		MIN.	10	A/ms
$t_{on}$	$I_G=80mA I_A=400mA I_R=40mA$ $T_j=25$		TYP.	5	$\mu s$
$t_{off}$				50	

**STATIC CHARACTERISTICS**

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

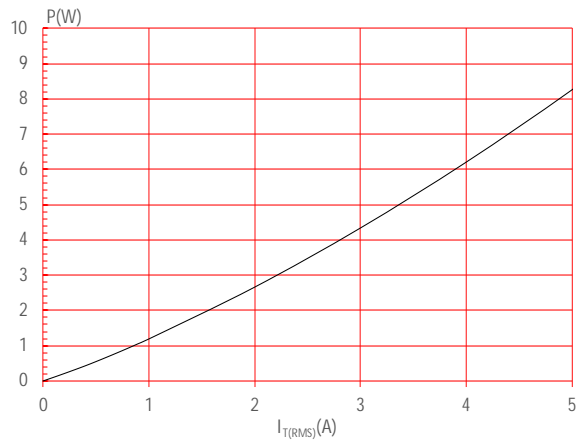
**THERMAL RESISTANCES**

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

ORDERING INFORMATION

J    ST    04    H    -600    BW  
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**FIG.1:** Maximum power dissipation versus RMS on-state current



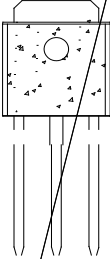
**FIG.2:** RMS on-state current versus case temperature





**JST04H-600BW**

**PACKAGE MECHANICAL DATA**



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