



JST30F-1600BW 30A TRIAC

Rev.A.1.1

The JST30F-1600BW 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. JST30F-1600BW snubberless triac is especially recommended for use on inductive loads. By using an external plastic package, JST30F-1600BW provides a rated insulation voltage of 2000

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Average gate power dissipation ($T_j=125^\circ\text{C}$)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.7)	V_{pp}	2.5	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	50	mA
V_{GT}		- -	MAX.	1.3	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125^\circ\text{C}$ $R_L=3.3k\Omega$	- -	MIN.	0.15	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	90	mA
				100	
I_H	$I_T=500\text{mA}$		MAX.	80	mA
dV/dt	$V_D=1070V$ Gate Open $T_j=125^\circ\text{C}$		MIN.	1200	V/ μs
(dI/dt) _c	(dV/dt) _c =20V/ μs $T_j=125^\circ\text{C}$		MIN.	28	A/ms
t_{on}	$I_G=80\text{mA}$ $I_A=400\text{mA}$ $I_R=40\text{mA}$ $T_j=25^\circ\text{C}$		TYP.	10	μs
t_{off}				70	

Symbol

Parameter

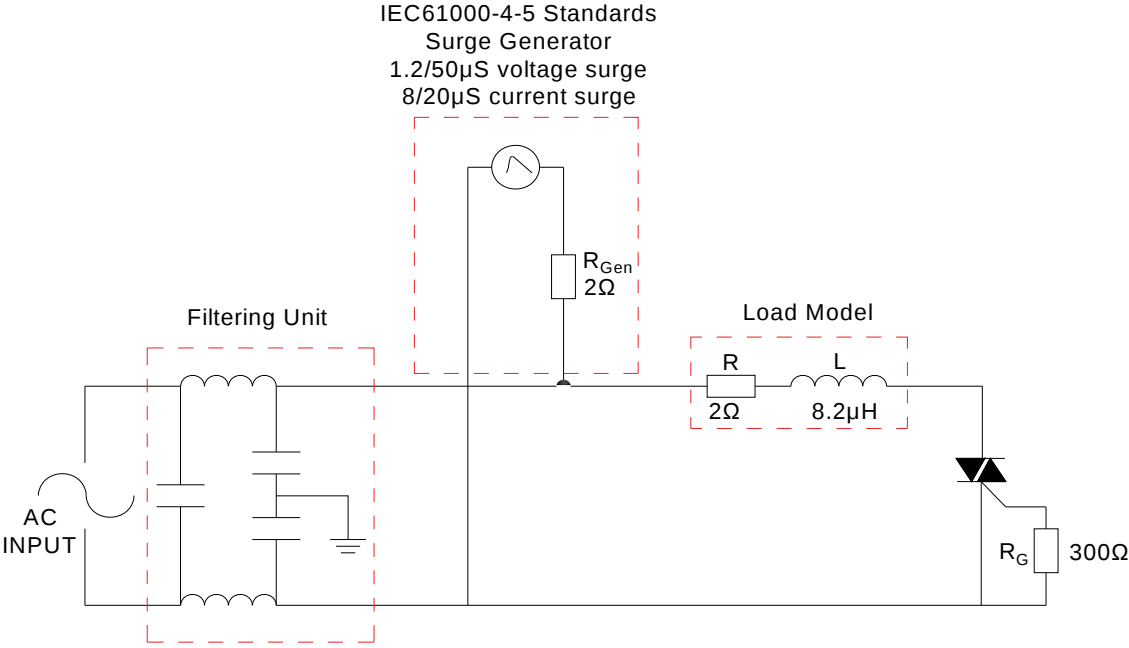
Value(MAX.)

J ST 30 F -1600 BW

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

FIG.2:

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



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