



JST24F-800B 25A TRIAC

Rev.A.1.1

The JST24F-800B 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 external plastic package, JST24F-800B provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.



Peak pulse voltage ($T_j=25$; non-repetitive,off-state;FIG.7)	V_{pp}	2	kV
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($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	50	mA
				70	
V_{GT}		ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k\Omega$	ALL	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	- -	MAX.	80	mA
				120	
I_H	$I_T=500mA$		MAX.	80	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$		MIN.	1000	V/ μs
(dV/dt)c	(dI/dt)c=13.3A/ms, $T_j=125$		MIN.	12	V/ μs
t_{on}	$I_G=80mA$ $I_A=400mA$ $I_R=40mA$ $T_j=25$		TYP.	3	μs
t_{off}				50	

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=35A$ $t_p=380\mu s$	$T_j=25$	1.5	V
V_{TO}	Threshold voltage	T		



J ST 24 F -800 B



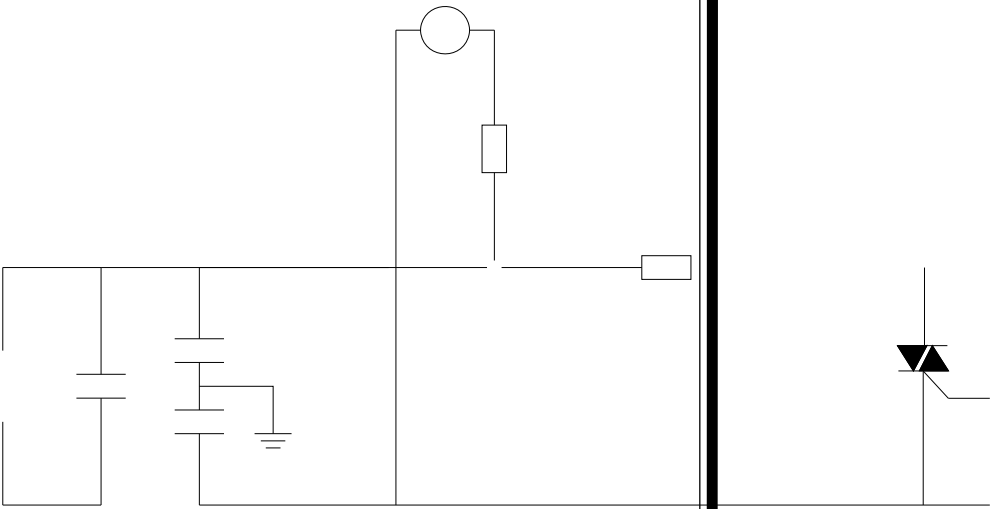
FIG.1: Maximum power dissipation versus RMS on-state current



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



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





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