The JST24F-800BW 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. JST24F-800BW snubberless triac is especially recommended for use on inductive loads. By using an external plastic package, JST24F-800BW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

Symbol	Value	Unit
$I_{T(RMS)}$	25	A
V_{DRM} /V_{RRM}	800	V
I_{GT} / /	50/50/50	mA

Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current ($T_C \leq 72$)	$I_{T(RMS)}$	25	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	250	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		275	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	340	A^2s
Critical rate of rise of on-state current (I_G=2 × I_{GT} , f=100Hz , T_j=125)	dI/dt	100	A/µs
Peak gate current (t_p=20µs , T_j=125)	I_{GM}	4	A
Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W

J ST 24 F -800 BW

JieJie Microelectronics Co., Ltd.

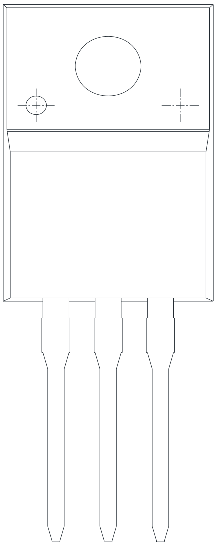
Triacs

$I_{T(RMS)}$:25A

F:TO-220F(Ins)

800:V_{DRM} /V_{RRM} ≥ 800V

BW:I_{GT1-3} ≤ 50mA



Maximum power dissipation versus RMS on-state current

RMS on-state current versus case temperature