The JST24F-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. JST24F-1600BW snubberless triac is especially recommended for use on inductive loads. By using an external plastic package, JST24F-1600BW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

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}	1600	V

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

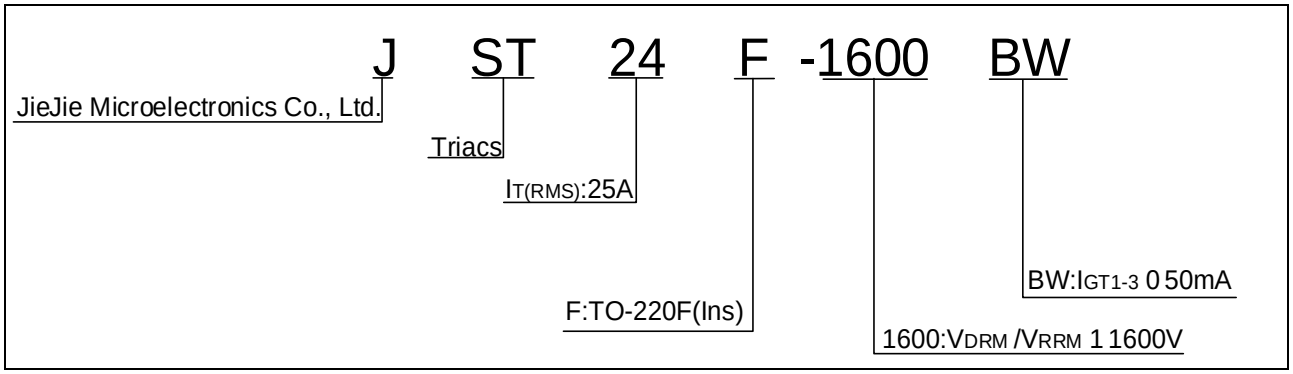
(T_j=25 unless otherwise specified)

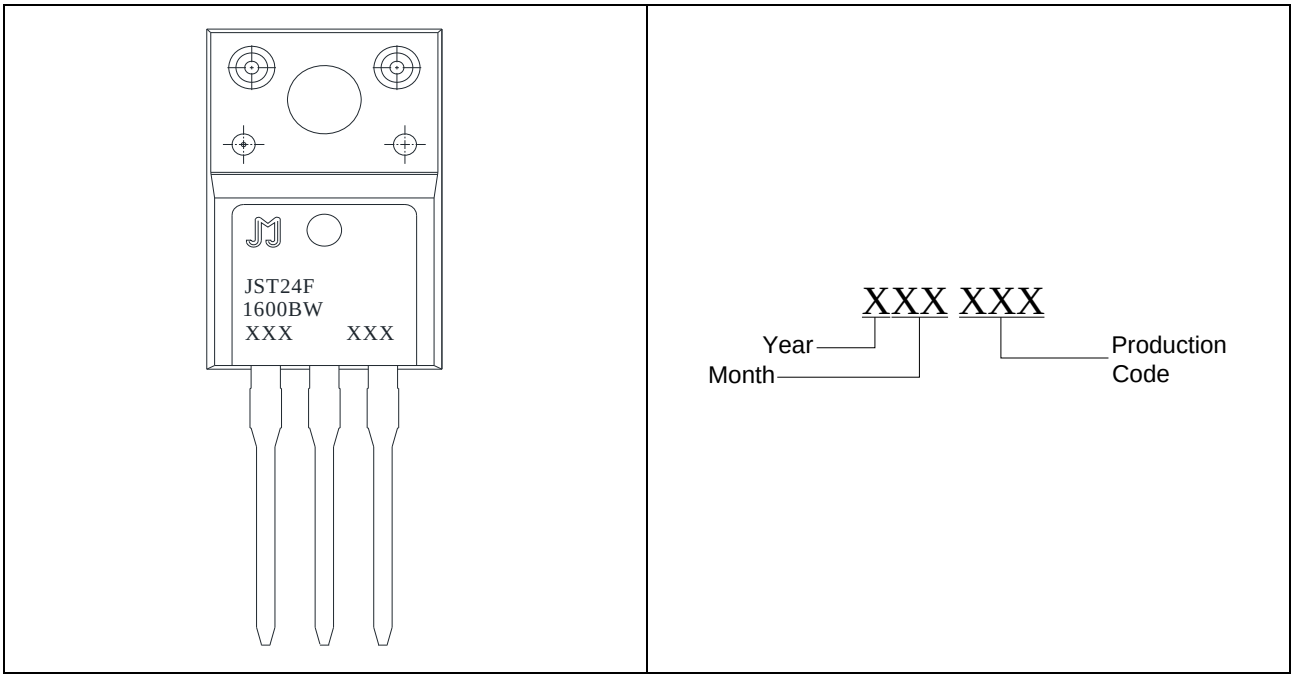
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	50	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	V_D =V_{DRM} T_j=125 R_L =3.3kΩ	- -	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	-	MAX.	90	mA
				100	
[redacted]	[redacted]		MAX.	80	mA
dV/dt	V_D=1070V Gate Open T_j=125		MIN.	2000	V/μs
(dI/dt)c	(dV/dt)c=20V/μs T_j=125		MIN.	25	A/ms
t_{on}	I_G=80mA I_A=400mA I_R=40mA T_j=25		TYP.	3	μs
t_{off}				80	

[redacted]

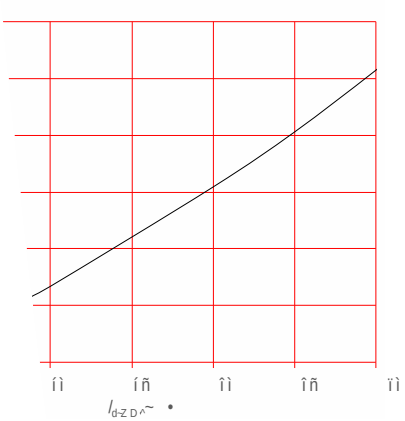
V_{TM}	I_{TM} =35A t_p=380μs	T_j=25	1 .8	V
V_{TO}	Threshold voltage	T_j=125	0.77	V
R_D	Dynamic resistance	T_j=125	35	mΩ
I_{DRM}	V_D=$V_{DRM}$$V_R$ =V_{RRM}	T_j=25	20	μA
I_{RRM}		T_j=125	8	mA

[redacted]


J ST 24 F -1600 BW
JieJie Microelectronics Co., Ltd.
Triacs
IT(RMS):25A
F:TO-220F(Ins)
1600:VDRM /VRRM 1 1600V
BW:IGT1-3 0 50mA


JST24F
1600BW
XXX XXX
XXX XXX
Year
Month
Production
Code

:imum power dissipation versus RMS
rrent



RMS on-state current versus case temperature

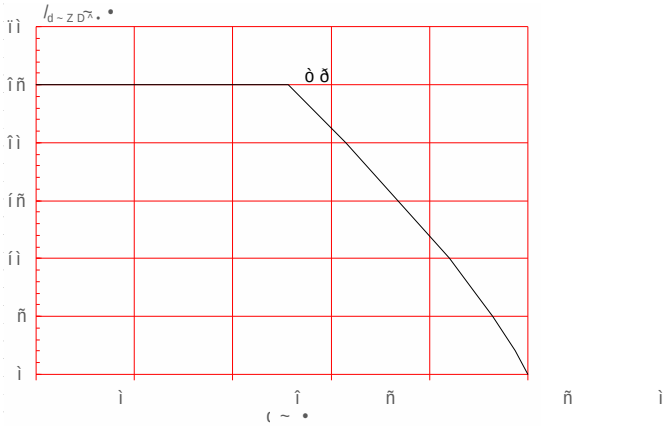


FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards