



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

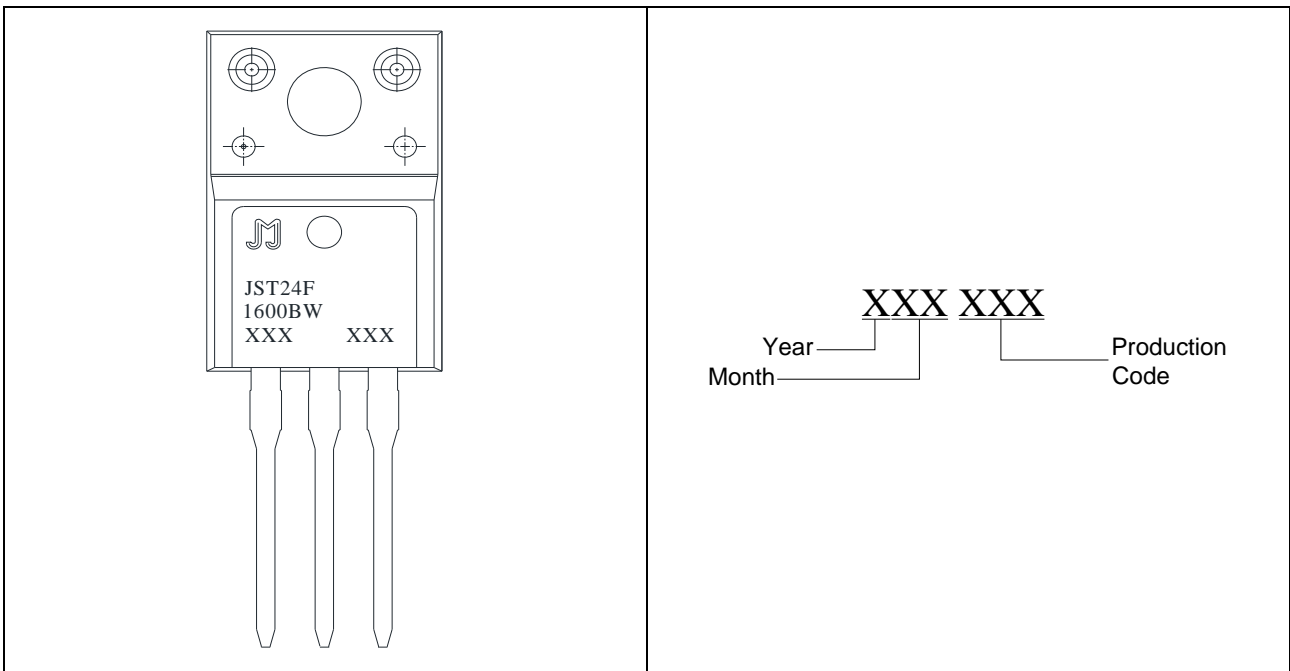
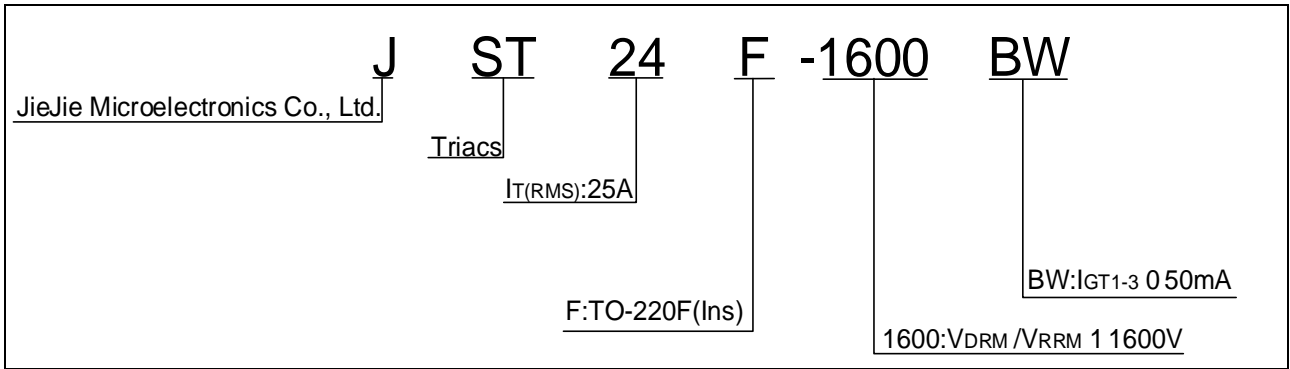


Average gate power dissipation ( $T_j=125$ )	$P_{G(AV)}$	0.5	W
Peak gate power	$P_{GM}$	10	W
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.7)	$V_{pp}$	2.5	kV

( $T_j=25$  unless otherwise specified)

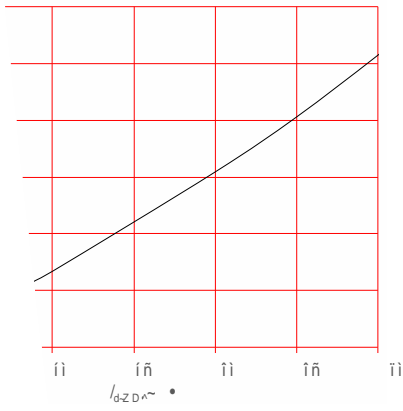
$I_{GT}$	$V_D=12V R_L=33$	- -	MAX.	50	mA
$V_{GT}$		- -	MAX.	1	V
$V_{GD}$	$V_D=V_{DRM} T_j=125$ $R_L=3.3k$	- -	MIN.	0.2	V
$I_L$	$I_G=1.2I_{GT}$	-	MAX.	90	mA
				100	
			MAX.	80	mA
$dV/dt$	$V_D=1070V$ Gate Open $T_j=125$		MIN.	2000	V/ $\mu s$
$(dI/dt)_c$	$(dV/dt)_c=20V/\mu s T_j=125$		MIN.	25	A/ms
$t_{on}$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

$V_{TM}$	$I_{TM}=35A t_p=380\mu s$	$T_j=25$	1.8	V
$V_{TO}$	Threshold voltage	$T_j=125$	0.77	V
$R_D$	Dynamic resistance	$T_j=125$	35	m
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	20	$\mu A$
$I_{RRM}$		$T_j=125$	8	mA





Minimum power dissipation versus RMS current



RMS on-state current versus case temperature

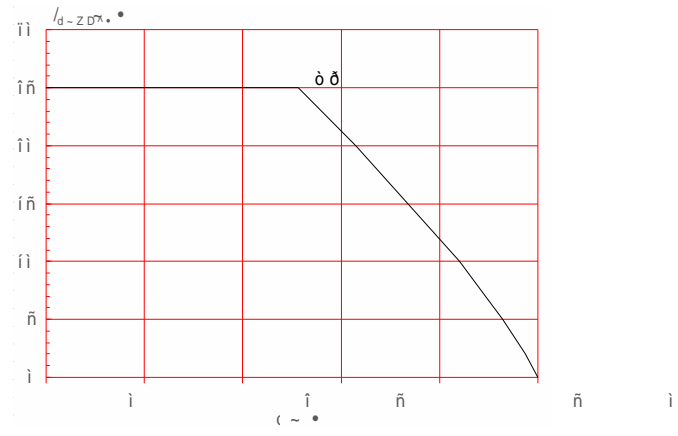
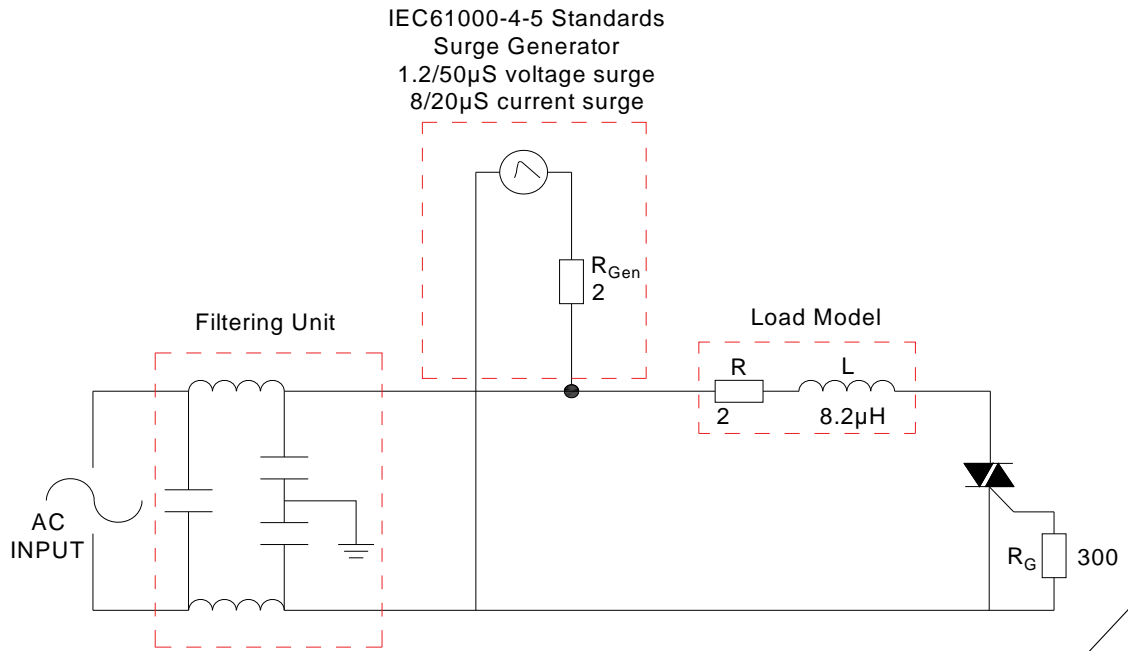




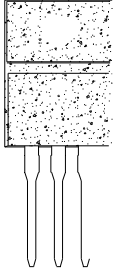
FIG.7 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards





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