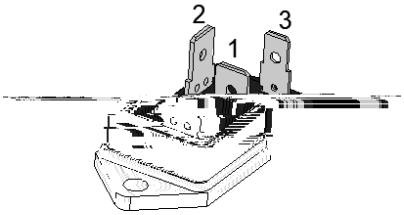
JST25T-600B 25A TRIAC

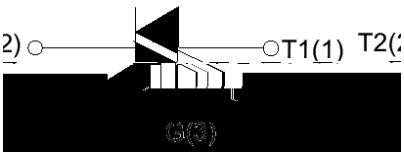
Rev.A.1.0

DESCRIPTION:

The JST25T-600B 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 a DBC, JST25T-600B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). PackageTG-C is RoHS compliant.



TG-C



MAIN FEATURES

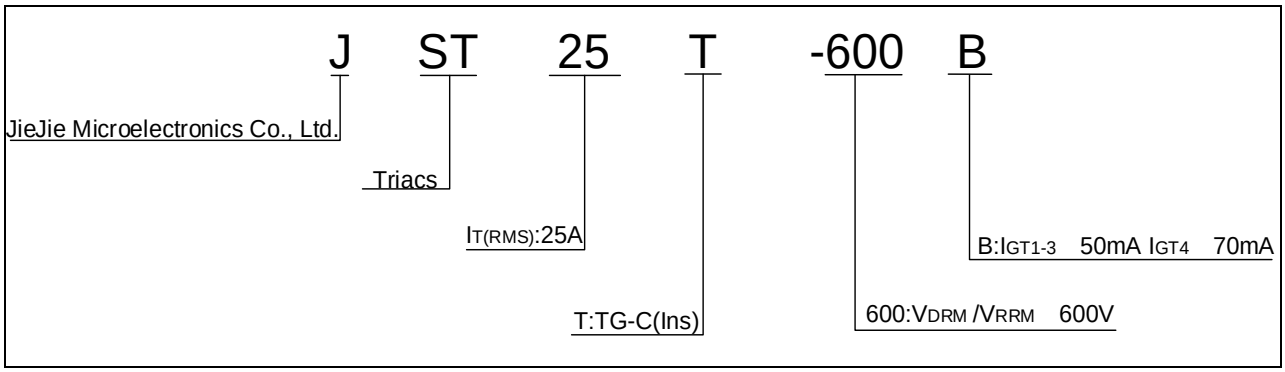
Symbol	Value	Unit
$I_{T(RMS)}$	25	A
V_{DRM} /V_{RRM}	600	V
I_{GT} / / /	50/50/50/70	mA

ABSOLUTE MAXIMUM RATINGS

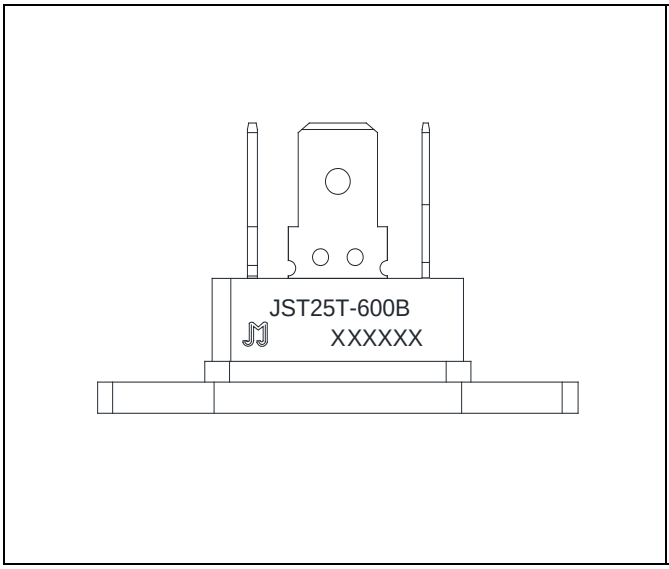
Parameter		Symbol	Value	Unit
Storage junction temperature range		T_{stg}	-40-150	
Operating junction temperature range		T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)		V_{DRM}	600	V
Repetitive peak reverse voltage (T_j=25)		V_{RRM}	600	V
RMS on-state current (T_C 90)		$I_{T(RMS)}$	25	A
Non repetitive 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 s
	-		50	
Peak Tf Isate current (20 s , T_j=125)		I_{GM}	4	A
AverageIsate power dissipation (T_j=125)		$P_{G(AV)}$	0.5	W
Peak Tf Isate power		P_{GM}	10	W

Peak pulse voltage
(T_{jT}

ORDERING INFORMATION



MARKING



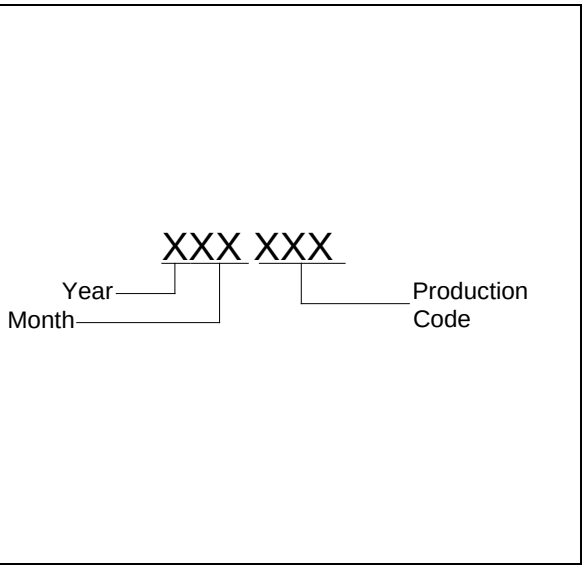
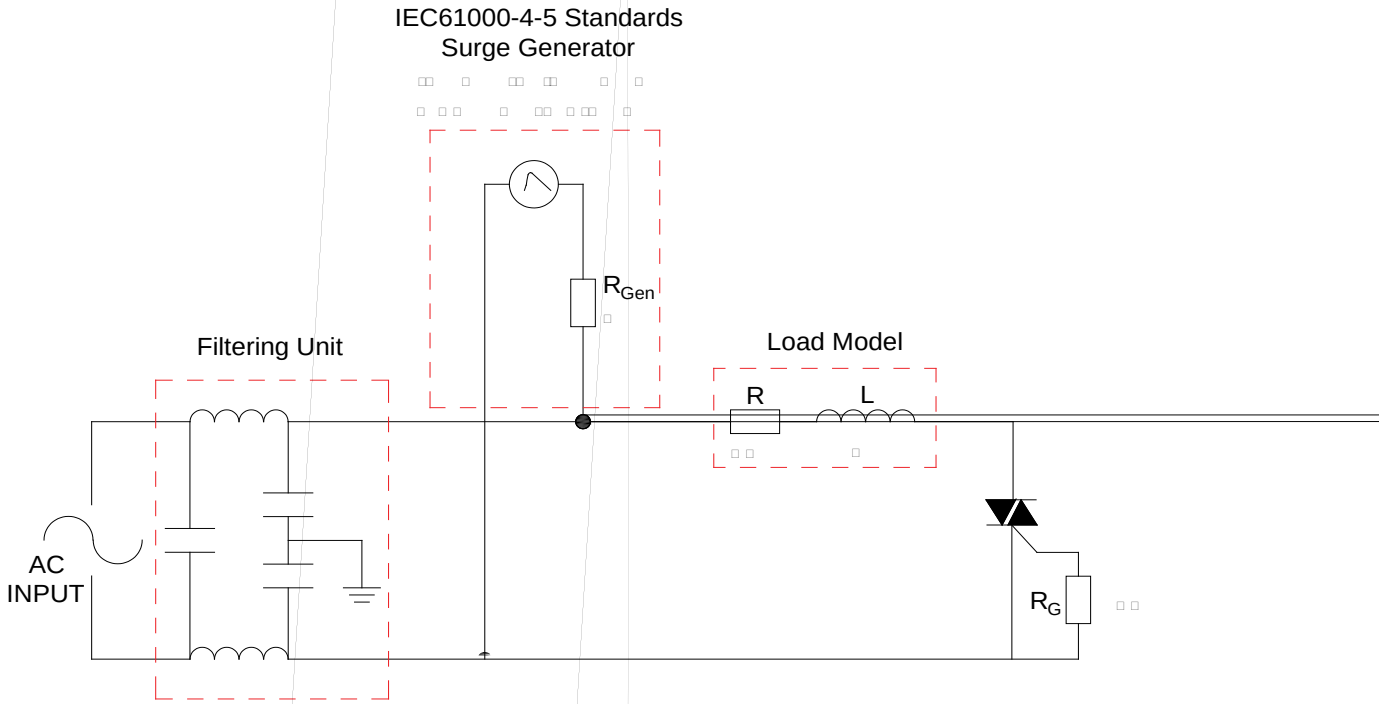


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



PACKAGE MECHANICAL DATA

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