



JST132L-600D 0.5A TRIAC

Rev.A.1.0

DESCRIPTION:

The JST132L-600D 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. Package SOT-23-3L is RoHS compliant.

MAIN FEATURES

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 ($T_j=25^\circ\text{C}$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	600	V
RMS on-state current ($T_c \leq 74^\circ\text{C}$)	$I_{T(RMS)}$		

ELECTRICAL CHARACTERISTICS ($T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33\Omega$	- -	MAX.	5	mA
				10	
V_{GT}		ALL	MAX.	1.3	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.	10	mA
				20	
I_H	$I_T=50mA$		MAX.	10	mA
dV/dt	$V_D=400V$ Gate Open $T_j=110$		MIN.	60	V/ μs
$(dV/dt)_c$	$(dI/dt)_c=0.3A/ms$, $T_j=110$		MIN.	5	V/ μs
t_{on}	$I_G=20mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		TYP.	2.5	μs
t_{off}				25	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=0.85A$ $t_p=380\mu s$	$T_j=25$	1.5	V
V_{TO}	Threshold voltage	$T_j=125$	0.98	V
R_D	Dynamic resistance	$T_j=125$	362	m Ω

ORDERING INFORMATION

J	ST	132	L	-600	D
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}:0.5A$	L:SOT-23-3L	$600:V_{DRM}/V_{RRM} \geq 600V$	D: $I_{GT1-3} \leq 5mA$ $I_{GT4} \leq 10mA$

MARKING

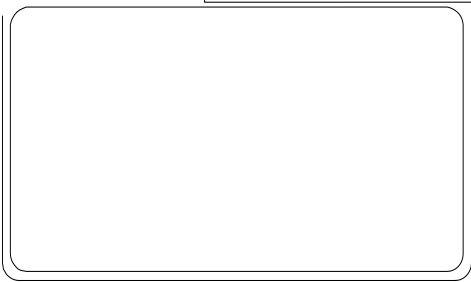
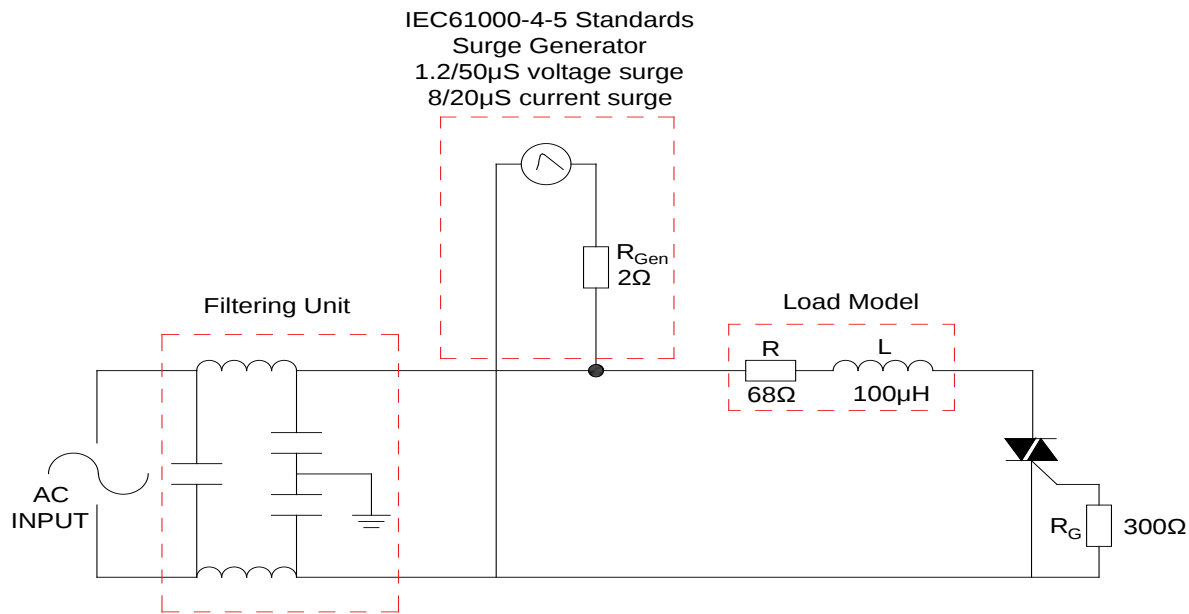


FIG.7: Relative variations of gate trigger current,
holding current and latching current versus

FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



DELIVERY MODE

