JST136C-800E 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST136C-800E 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. From T2 terminals to external heatsink. Package TO-220C 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)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current (T_C 110)	$I_{T(RMS)}$		

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	- -	MAX.	10	mA
				25	
V_{GT}		ALL	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=125 R_L=3.3kΩ	ALL	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	-	MAX.	20	mA
		-		30	
I_H	I_T=100mA		MAX.	25	mA
dV/dt	V_D=540V Gate Open T_j=110		MIN.	250	V/μs
(dV/dt)c	(dI/dt)c=1.8A/ms, T_j=110		MIN.	6	V/μs
t_{on}	I_G=40mA I_A=200mA I_R=20mA T_j=25		TYP.	1.5	μs
t_{off}				15	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=5A t_p=380μs	T_j=25	1.7	V
V_{TO}	Threshold voltage	T_j=125	0.94	V
R_D	Dynamic resistance	T_j=125	124	mΩT

ORDERING INFORMATION .3 2X

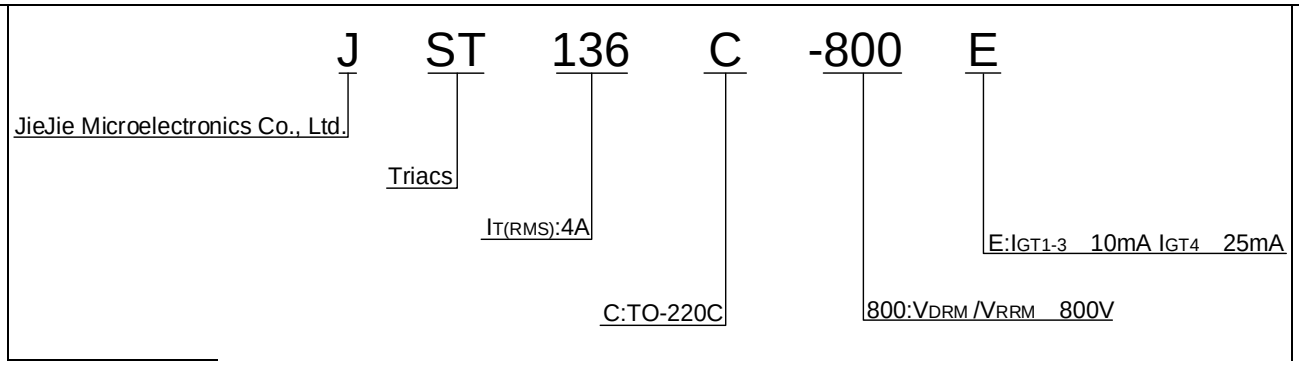


FIG.1: Maximum power dissipation versus RMS on-state current

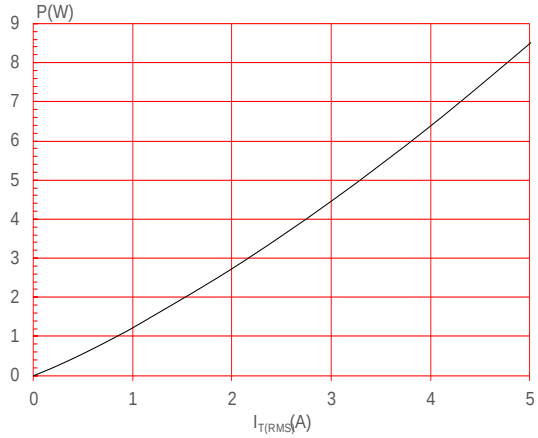


FIG.2: RMS on-state current versus case temperature

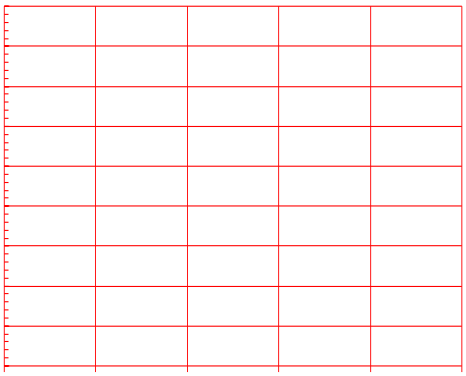
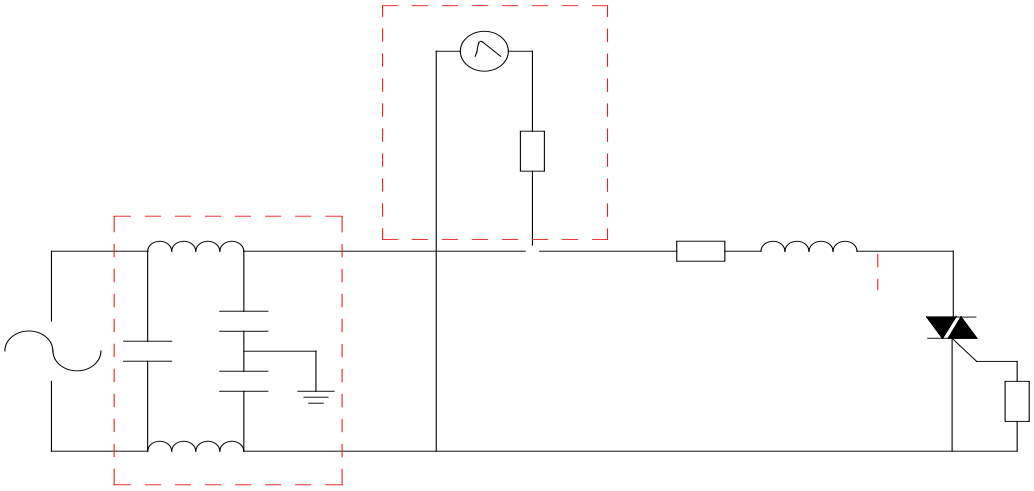


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



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