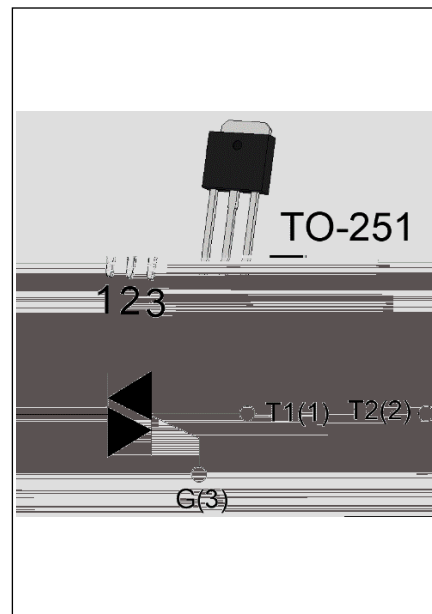


**JST136H-800T 4A TRIAC**

Rev.A.1.1

DESCRIPTION:

The JST136H-800T 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-251 is RoHS compliant.

**MAIN FEATURES**

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	800	V
$I_{GT} / / /$	5/5/5/5	mA

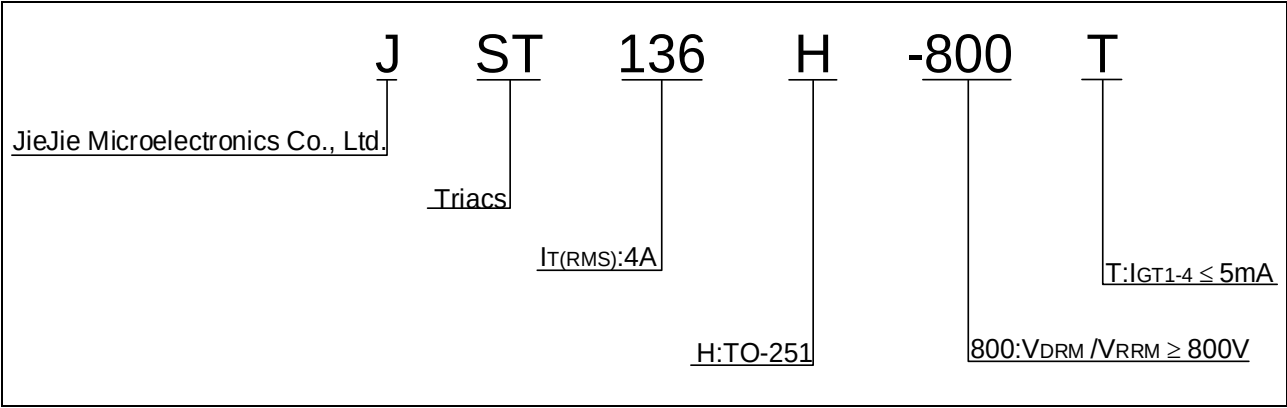
ABSOLUTE MAXIMUM RATINGS

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}	800	V
Repetitive peak reverse voltage (T _j =25)		V _{RRM}	800	V
RMS on-state current (T _C ≤ 83)		I _{T(RMS)}	4	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)		I _{TSM}	35	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)			38	
I ² t value for fusing (t _p =10ms , T _j =25)		I ² t	6.1	A ² s
Critical rate of rise of on-state current (I _G =2 × I _{GT} , f=100Hz , T _j =125)	-	dI/dt	50	A/μs
	-		30	
Peak gate current (t _p =20μs , T _j =125)		I _{GM}	2	A
Average gate power dissipation (T _j =125)		P _{G(AV)}	0.5	W
Peak gate power		P _{GM}	5	W
Peak pulse voltage (T _j =25 ; non-repetitive,off-state;FIG.7)		V _{pp}	2.5	kV



ELECTRICAL CHARACTERISTICS ($T_j=25$

ORDERING INFORMATION



MARKING

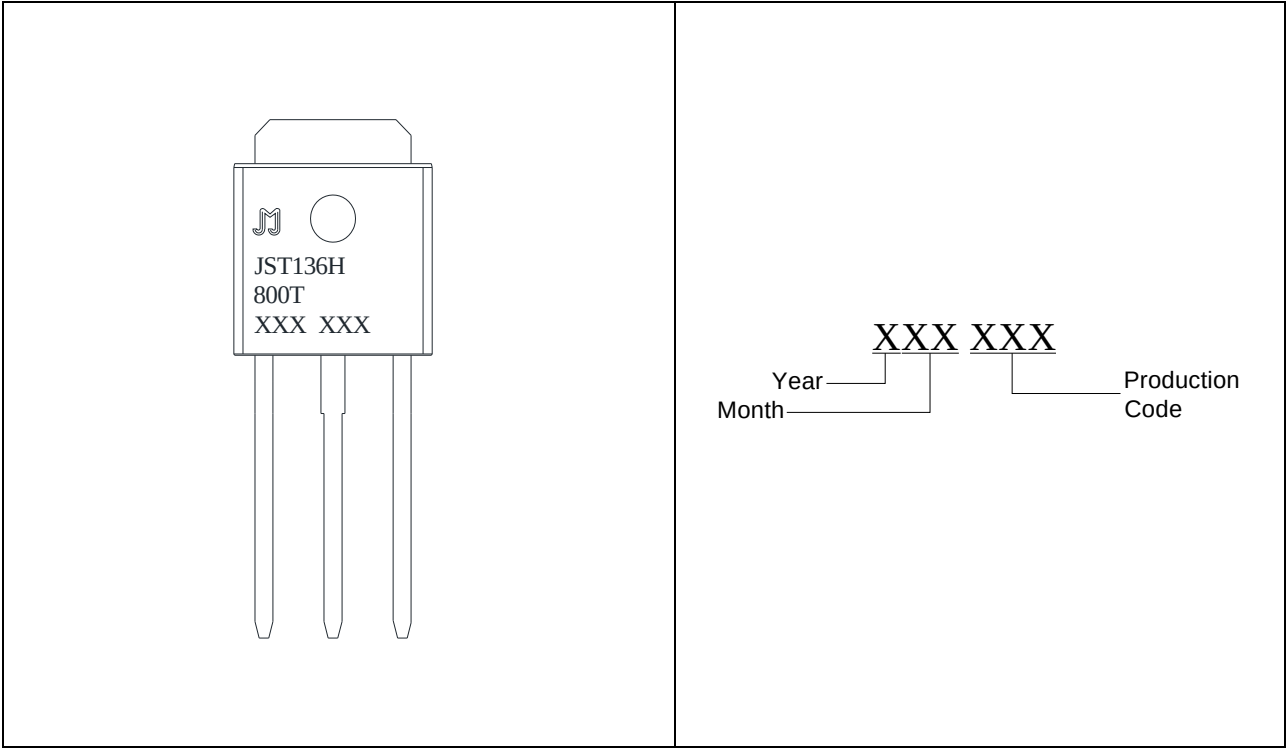


FIG.1: Maximum power dissipation versus RMS on-state current

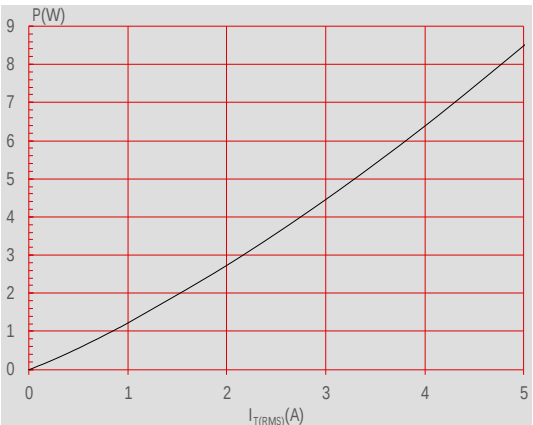


FIG.3: Surge peak on-state current versus number of cycles



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

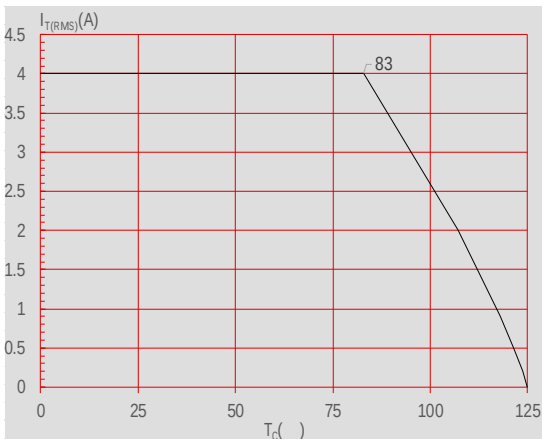


FIG.4: On-state characteristics

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

