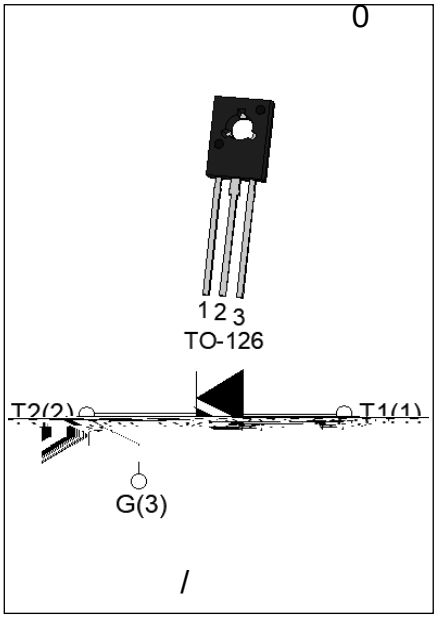
JST136Q-600E 4A TRIAC

Rev.A.1.0

Description

The JST136Q-600E is a 4A TRIAC in a TO-126 package. It is designed for AC switching applications such as ON/OFF control, phase control and static switching in motor speed controllers, heating systems and other industrial and domestic applications. For T2 terminal connection, please refer to the package outline. Package: TO-126. RoHS compliant.



Absolute Maximum Ratings

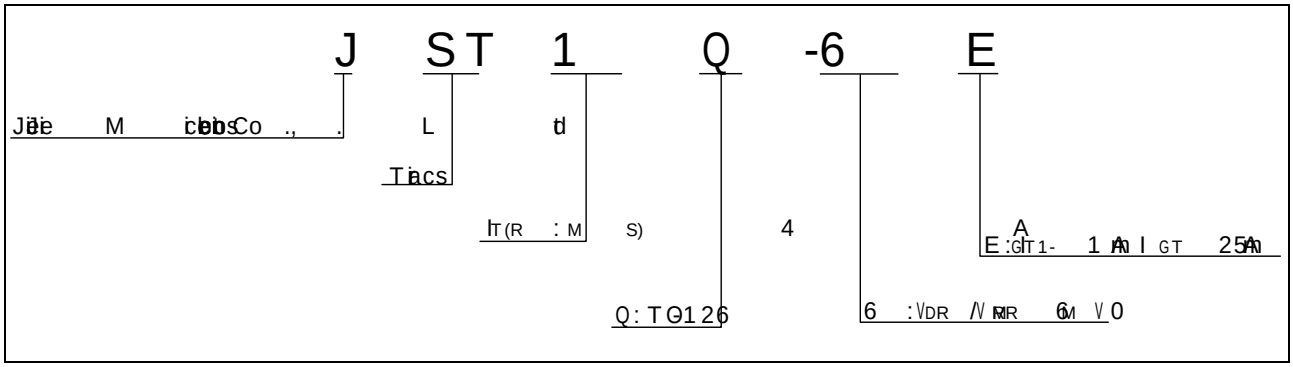
Symbol	Value	Unit
$I_{T(RMS)}$		A
V_{DRM} / V_{RRM}	600	V
I_{GT} / / /	10 / 10 / 10 / 25	mA

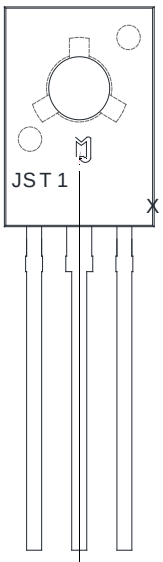
Electrical Characteristics

Parameter	Symbol	Value	Unit
Storage junction temperature	T_{stg}	-40 ~ 150	°C
Operating junction temperature	T_j	-40 ~ 125	°C
Repetitive peak off-state voltage (T_j=25°C)	V_{DRM}	600	V
Repetitive peak reverse voltage (T_j=25°C)	V_{RRM}	600	V
RMS on-state current (TSOT-89 package, T_C=85°C)	$I_{T(RMS)}$	3	A
Non repetitive surge peak on-state current (full cycle, T_p=20ms, T_j=25°C)	I_{TSM}	25	A
Non repetitive surge peak on-state current (full cycle, T_p=16.6ms, T_j=25°C)		27.5	
I^2t value for fusing (t_p=10ms, T_j=25°C)	I^2t	3.1	A^2s
Critical rate of rise of on-state current (I_G=2×I_{GT}, f=120Hz, T_j=125°C)	dI/dt	50	A/μs
Peak gate current (t_p=20μs, T_j=125°C)	I_{GM}	2	A
Average gate power dissipation (T_j=125°C)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	5	W
Peak gate voltage (T_j=25°C, non-repetitive, see FIG.7)	V_{GP}	10.5	V

(Tj=25 unless otherwise noted)

Symbol	Test Condition	Quadrant	Value	Unit
I_{GT}	V_D=12V R= Ω $_L$		3	


J ST 1 Q -6 E
Jie Jie Microelectronics Co., Ltd.
Triacs
IT(RMS)
4
A
E:IGT 1-10mA
6 :VDRM/VRRM 600V
Q:TO126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Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		- -				
JST136Q-600E	600	10	25	TO-126	500	Bulk Pack

Document Revision History

Date	Rev	Change
Ap .1 , 2	A.14	0 L atdatd