



JST136Q-600E 4A TRIAC

Rev.A.1.0

DESCRIPTION:

The JST136Q600E is suitable for

AC switch

appliance

and

digital circuits

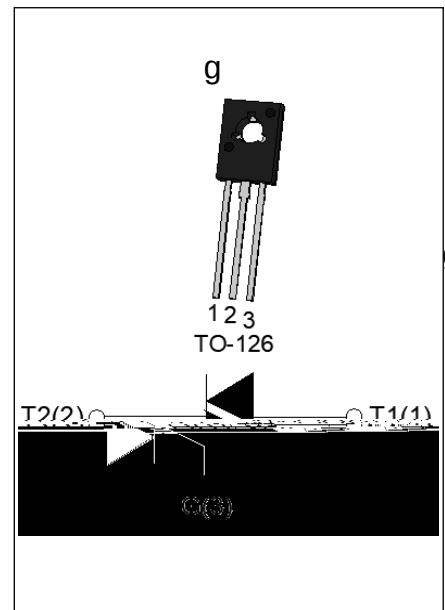
thermal heat

Package

TO-126

MAIN FEATURES

Symbol	Value	Unit
$I_T(RMS)$	4	A
V_{DRM} / V_{RRM}	600	V
$I_{GT} / / /$	10/10/10/25	mA



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage temperature	T_s	-40~150	°C
Operating junction temperature	T_j	-40~125	°C
Repetitive peak reverse voltage ($f = 25\text{ Hz}$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($f = 25\text{ Hz}$)	V_{RRM}	600	V
RMS on-state current ($T_c = 83\text{ °C}$)	$I_T(RMS)$	4	A
Non-repetitive surge current (pulse, $t_p = 20\text{ ms}$, $T_j = 25\text{ °C}$)	I_{TSM}	35	A
Non-repetitive surge current (pulse, $t_p = 16.6\text{ ms}$, $T_j = 25\text{ °C}$)		38.5	
Surge power dissipation ($p = 10\text{ ms}$, $T_j = 25\text{ °C}$)	I^2t	6.0	A^2s
Gate trigger current ($I_{GT} = 10\text{ mA}$, $f = 100\text{ Hz}$, $T_j = 125\text{ °C}$)	dI/dt	80	$A/\mu s$
		40	
Peak gate current ($p = 20\text{ μs}$, $T_j = 125\text{ °C}$)	I_{GM}	2	A
Average power dissipation ($T_j = 125\text{ °C}$)	$P_{G(AV)}$	0.5	W
Peak power dissipation	P_{GM}	5	W
Peak voltage ($T_j = 25\text{ °C}$; dI/dt as in FIG. 7)	V_p	3.5	V

ELECTRICAL CHARACTERISTICS (TA=25℃ unless specified)

Symbol	Test Condition	Quadrant	Value	Unit
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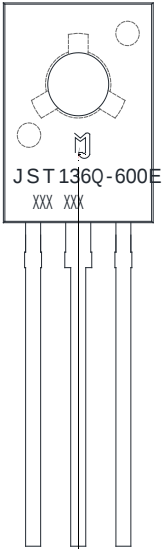
I_{GT}

$V_D = 12V$ $R = 3\Omega$

ORDERING INFORMATION

J	S	T	136	Q	-600	E
JieJie Microelectronics Co., Ltd.	TACS		IT (RMS): 4A			E: T1-3 10A GT4 25A
			Q: TQ126		600: VRM / VRM 600V	

MARKING



JST136Q-600E

JieJie MB (CM)]TJ -0.004 Tc 0.004 Tw 0.8

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (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
Apr 14, 2023	A1.0	Launched

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