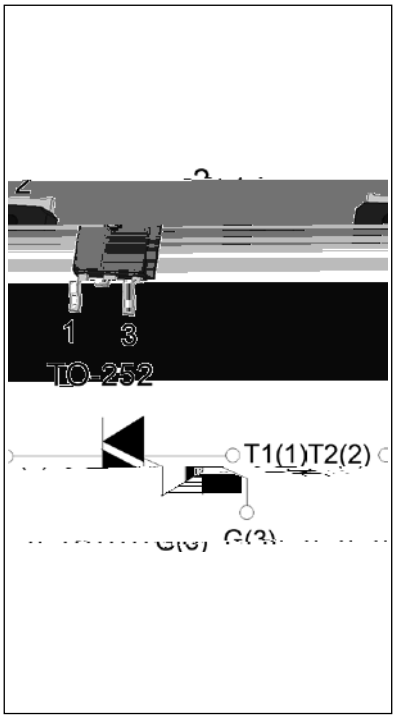
JST06K-800BW 6A TRIAC

Rev.A.1.1

The JST06K-800BW 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. JST06K-800BW snubberless triac is especially recommended for use on inductive loads. Package TO-252 is RoHS compliant.



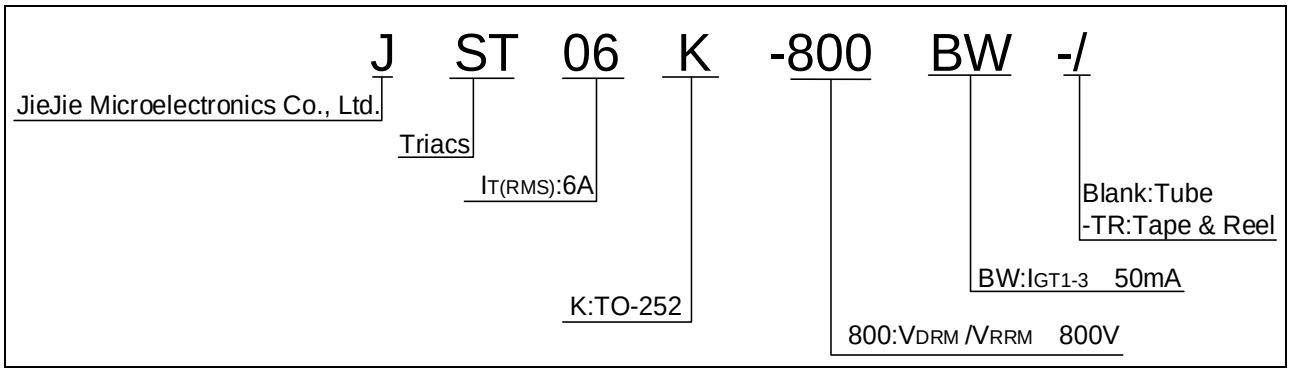
Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM} /V_{RRM}	800	V
I_{GT} / /	50/50/50	mA

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 91)	$I_{T(RMS)}$	6	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	65	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		72	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	21	A^2s
Critical rate of rise of on-state current (I_G=2 I_{GT} , f=100Hz , T_j=125)	dI/dt	100	A/εs
Peak gate current (t_p=20εs , T_j=125)	I_{GM}	4	A
Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	10	W

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.8)	V_{pp}	4	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33q	- -	MAX.	50	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	V_D =V_{DRM} T_j =125 R_L =3.3kq	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}	-	MAX.	70	mA


J ST 06 K -800 BW -/
JieJie Microelectronics Co., Ltd.
Triacs
IT(RMS):6A
K:TO-252
800:VDRM /VRRM 800V
BW:IGT1-3 50mA
Blank:Tube
-TR:Tape & Reel

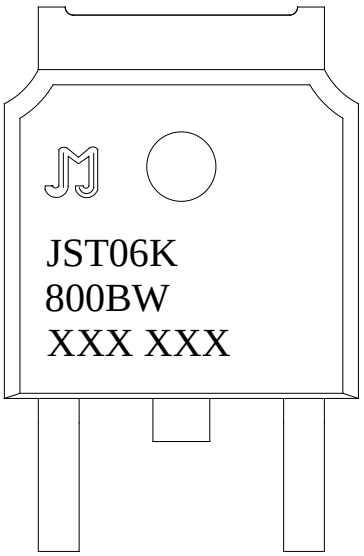
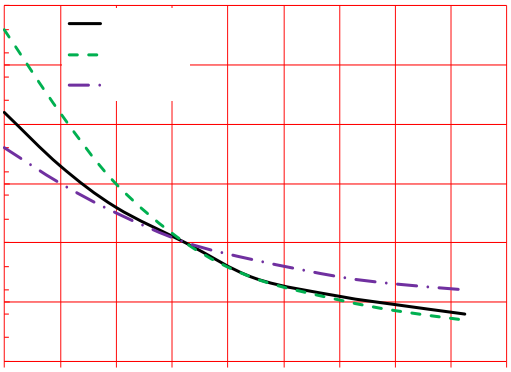

JST06K
800BW
XXX XXX

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



Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST06K-800BW	800	50	TO-252	80	Tube
JST06K-800BW-TR				2,500	Tape & Reel TO

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