



JST26Z-800B 25A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST26Z-800B 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. By using an internal ceramic pad, JST26Z-800B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-3P 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-

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.7)	V_{pp}	2	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	50	mA
				70	
V_{GT}		ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$	ALL	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	- -	MAX.	80	mA
				120	
I_H	$I_T=500mA$		MAX.	80	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$		MIN.	1000	V/s
$(dV/dt)_c$	$(dI/dt)_c=13.3A/ms$, $T_j=125$		MIN.	12	9 V
t_{on}	$I_G=80mA$ $I_A=400mA$ $I_R=40mA$ $T_j=25$		TYP.	3	s
t_{off}				50	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	$I_{TM}=35A$ $t_p=380$ s	$T_j=25$	1.5	V
V_{TO}	Threshold voltage	$T_j=125$	0.75	V
R_D	Dynamic resistance	$T_j=125$	18	P
I_{DRM}	$V_D=V_{DRM}$ $V_R=V_{RRM}$	$T_j=25$	5	A
I_{RRM}		$T_j=125$	2	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	1.1	/W

ORDERING INFORMATION

<u>J</u>	<u>ST</u>	<u>26</u>	<u>Z</u>	<u>-800</u>	<u>B</u>
JieJie Microelectronics Co., Ltd.	Triacs				
		<u>IT(RMS):25A</u>			<u>B:IGT1-3 50mA IGT4 70mA</u>
		<u>Z:TO-3P(Ins)</u>		<u>800:VDRM /VRRM 800V</u>	

MARKING

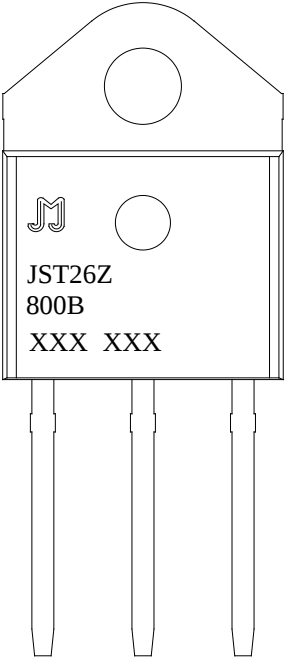
	<u>XXX</u> <u>XXX</u> Year——— Month——— Production Code
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FIG.1: Maximum power dissipation versus RMS on-state current

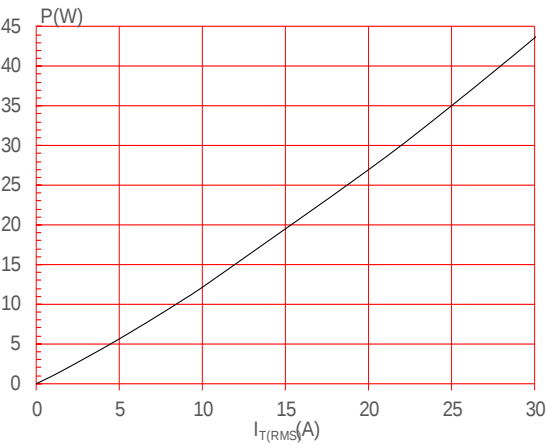


FIG.3: Surge peak on-state current versus number of cycles

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

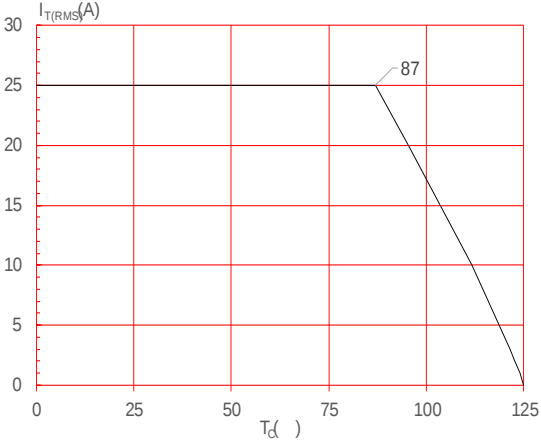


FIG.4: On-state characteristics

ORDERING INFORMATION

Order 5.0.011 Tc

PACKAGE MECHANICAL DATA



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