JST20F-800CW 20A TRIAC

Rev.A.1.1

The JST20F-800CW 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. JST20F-800CW snubberless triac is especially recommended for use on inductive loads. By using an external plastic package, JST20F-800CW provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

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 067)	$I_{T(RMS)}$	20	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j 67 25)	I_{TSM}	200	A

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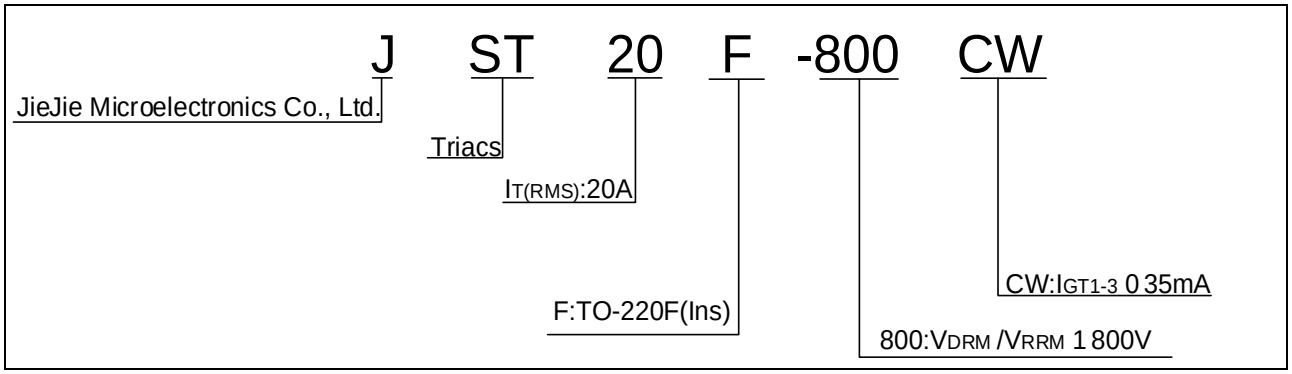
Peak gate power	P_{GM}	10	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	4	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	35	mA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ST
20
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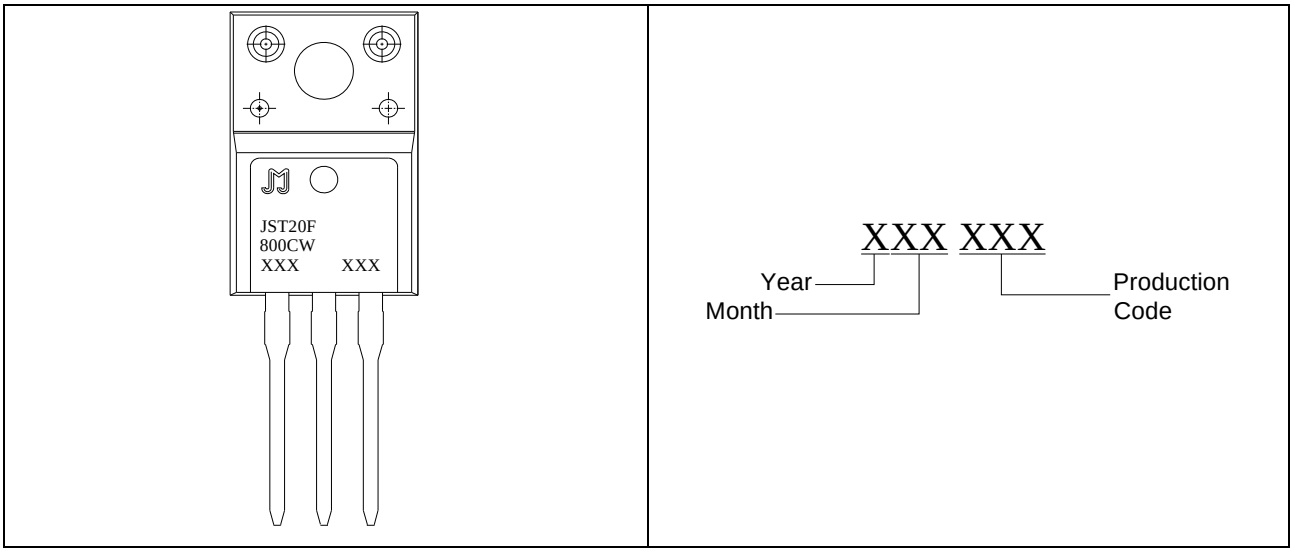
JieJie Microelectronics Co., Ltd.
Triacs
IT(RMS):20A
F:TO-220F(Ins)
CW:IGT1-3 0 35mA
800:VDRM /VRRM 1 800V


JST20F
800CW
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Production
Code

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

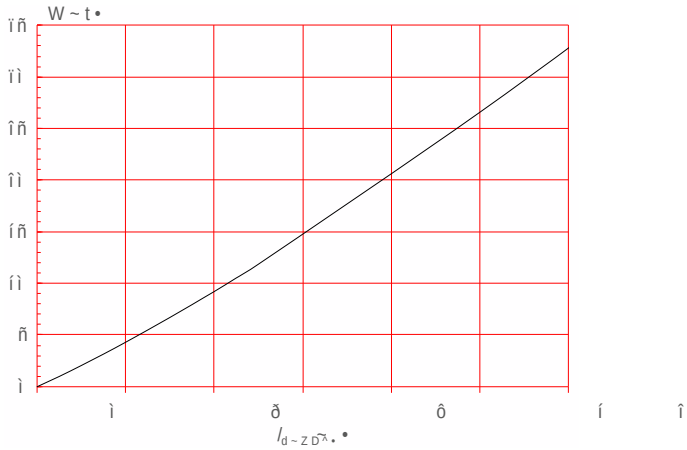

FIG.2: RMS on-state current versus case temperature

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JST20	W	8	TO-220	M	Tube 50

Date	Revision	Changes
Apr.12, 2023	A.1.0	Last updated
Oct.13, 2025	A.1.1	

Information furnished in this document is believed to be accura