

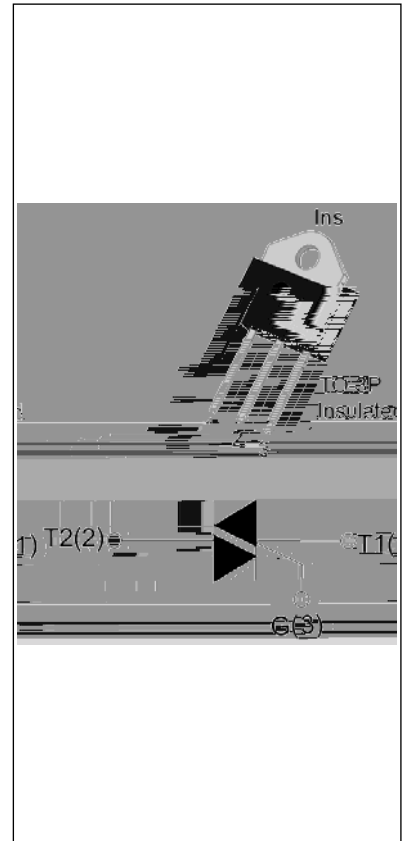


## JST30Z-800CW 30A TRIAC

Rev.A.1.1

### DESCRIPTION:

The JST30Z-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. JST30Z-800CW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST30Z-800CW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-3P is RoHS compliant.



### MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	30	A
$V_{DRM}/V_{RRM}$	800	V
$I_{GT} / /$	35/35/35	mA

### ABSOLUTE MAXIMUM RATINGS

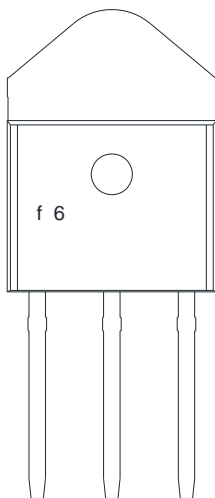
Parameter	Symbol	Value	Unit
Storage junction temperature range	$T_{stg}$	-40-150	
Operating junction temperature range	$T_j$	-40-125	
Repetitive peak off-state voltage ( $T_j=25^\circ C$ )	$V_{DRM}$	800	V
Repetitive peak reverse voltage ( $T_j=25^\circ C$ )	$V_{RRM}$	800	V
RMS on-state current ( $T_c 079^\circ C$ )	$I_{T(RMS)}$	30	A
Non repetitive surge peak on-state current (full cycle, $t_p=20ms$ , $T_j=25^\circ C$ )	$I_{TSM}$	300	A
Non repetitive surge peak on-state current (full cycle, $t_p=16.6ms$ , $T_j=25^\circ C$ )		330	
$I^2t$ value for fusing ( $t_p=10ms$ , $T_j=25^\circ C$ )	$I^2t$	450	$A^2s$
Critical rate of rise of on-state current ( $I_G=2$ hI <sub>GT</sub> , $f=100Hz$ , $T_j=125^\circ C$ )	$di/dt$	100	$A/\mu s$
Peak gate current ( $t_p=20\mu s$ , $T_j=125^\circ C$ )	$I_{GM}$	4	A



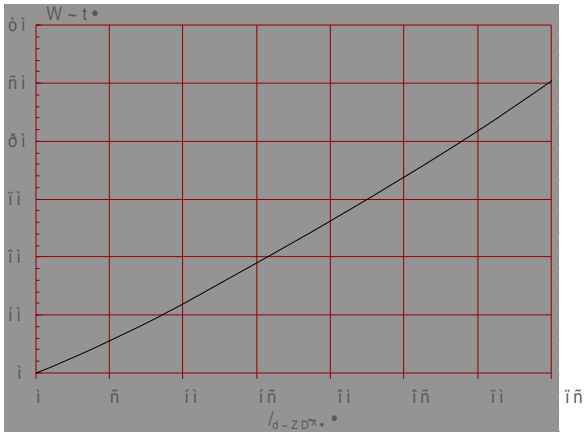
## ORDERING INFORMATION

<b>J</b>	<b>ST</b>	<b>30</b>	<b>Z</b>	<b>-800</b>	<b>CW</b>
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}:30A$	Z:TO-3P(Ins)	800: $V_{DRM}/V_{RRM} 1 800V$	CW:IGT1-3 0.35mA

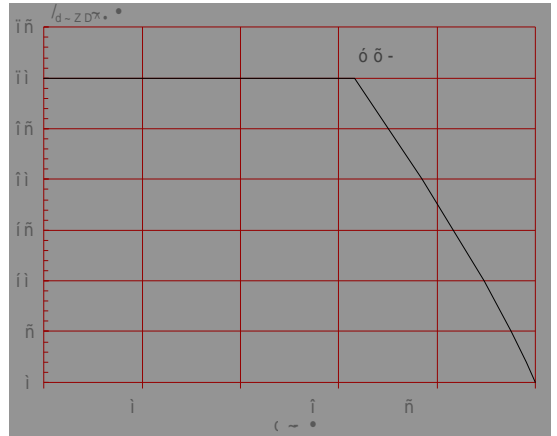
## MARKING



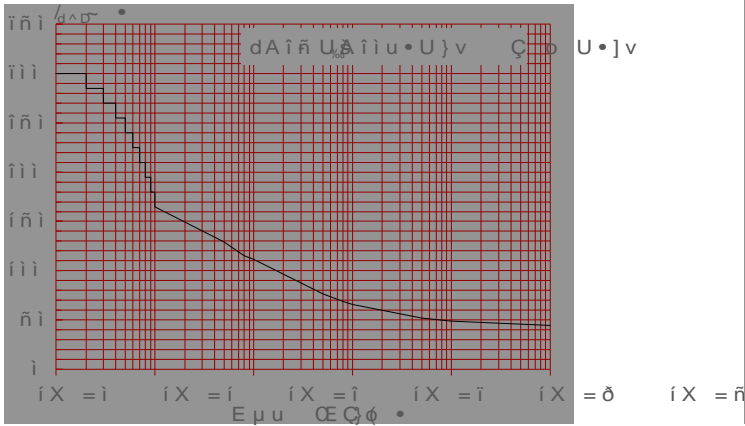
**FIG.1:** Maximum power dissipation versus RMS on-state current



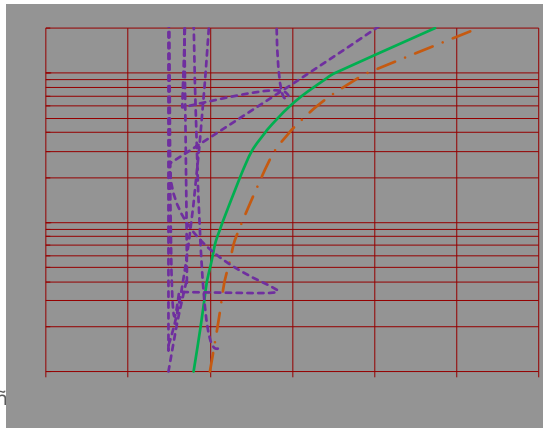
**FIG.2:** RMS on-state current versus case temperature



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



**FIG.4:** On-state characteristics





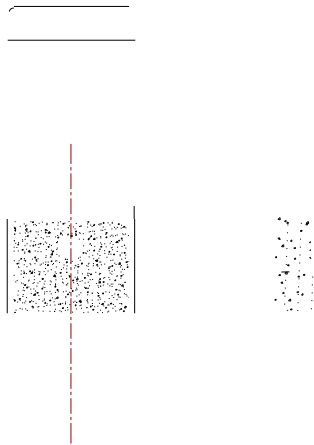
**ORDERING INFORMATION**

Order code	Voltage $V_{DRM}/V_{RRM}(V)$	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		H- I- J			
<b>JST30Z-800CW</b>	<b>800</b>	<b>35</b>	<b>TO-3P(Ins)</b>	<b>30</b>	<b>Tube</b>

**Document Revision History**

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated
Oct.16, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA



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