



## JST136F-800E 4A TRIAC

Rev.A.1.1

### DESCRIPTION:

The JST136F-800E 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 external plastic package, JST136F-800E provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F 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-state voltage ( $T_j=25^\circ\text{C}$ )	$V_{DRM}$	800	V
Repetitive peak reverse voltage ( $T_j=25^\circ\text{C}$ )	$V_{RRM}$	800	V
RMS on-state current ( $T_c=86^\circ\text{C}$ )	$I_{T(RMS)}$	4	A

	$P_{GM}$	5	W
.7)	$V_{pp}$	3.5	kV

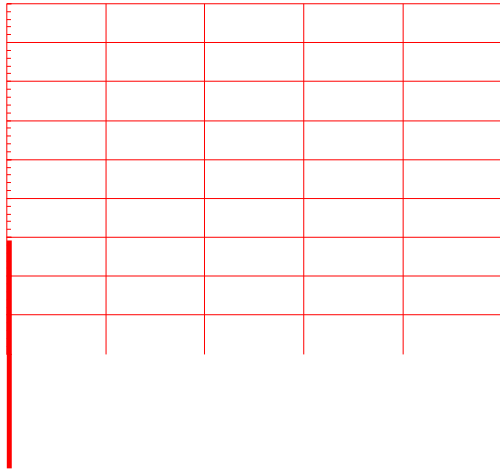
25 unless otherwise specified)

Quadrant	Value		Unit
- -	MAX.	10	mA
		25	
ALL	MAX.	1	V
ALL	MIN.	0.2	V
-	MAX.	20	mA
-		30	
	MAX.	25	mA
10	MIN.	250	V/ $\mu$ s
	MIN.	6	V/ $\mu$ s
mA	TYP.	1.5	$\mu$ s
		15	

Parameter	Value(MAX.)	Unit
$T_j=25$ 7	1.7	V
$T_j=125$	0.94	V
$T_j=125$	124	m

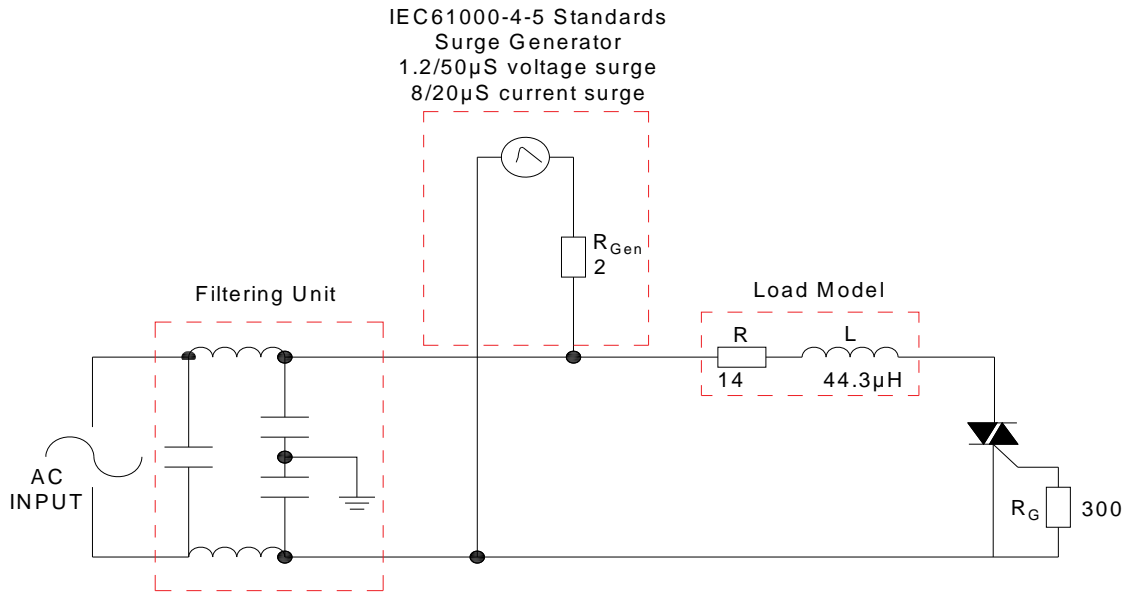


**FIG.1:** Maximum power dissipation versus RMS on-state current



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

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards






**PACKAGE MECHANICAL DATA**



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