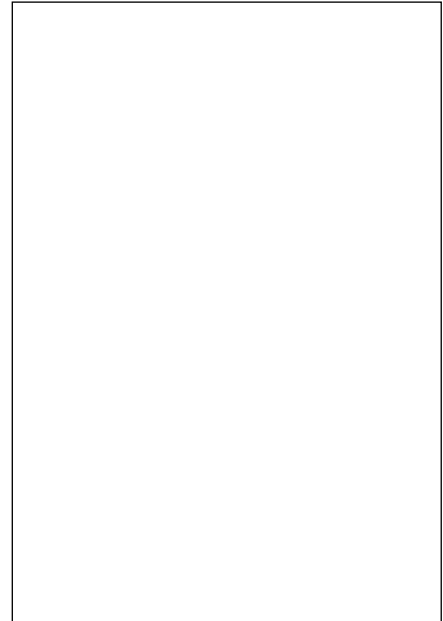


DESCRIPTION:

The JST134K-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. Package TO-252 is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	800	V
$I_{GT} / / /$	10/10/10/25	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 ($T_c 084^\circ C$)	$I_{T(RMS)}$	4	A	
Non repetitive surge peak on-state current (full cycle, $t_p=20ms$, $T_j=25^\circ C$)	I_{TSM}	25	A	
Non repetitive surge peak on-state current (full cycle, $t_p=16.6ms$, $T_j=25^\circ C$)		27.5		
I^2t value for fusing ($t_p=10ms$, $T_j=25^\circ C$)	I^2t	3.125	A^2s	
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100Hz$, $T_j=125^\circ C$)	-	dl/dt	70	A s
			40	
Peak gate current ($t_p=20^\circ s$, $T_j=125^\circ C$)	I_{GM}	2	A	
Average gate power dissipation ($T_j=125^\circ C$)	$P_{G(AV)}$	0.5	W	
Peak gate power	P_{GM}	5	W	
Peak pulse voltage ($T_j=25^\circ C$; non-repetitive, off-state; FIG.8)	V_{pp}	4	kV	

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	10	mA
				25	
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.	15	mA

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

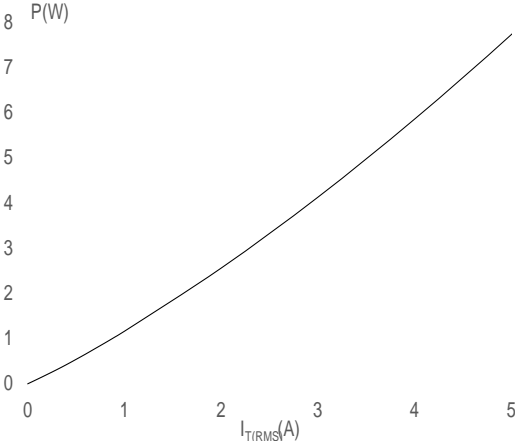


FIG.2: RMS on-state current versus case temperature

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

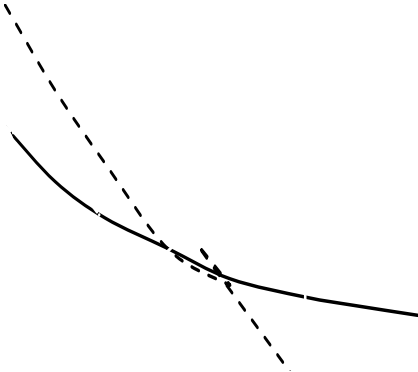
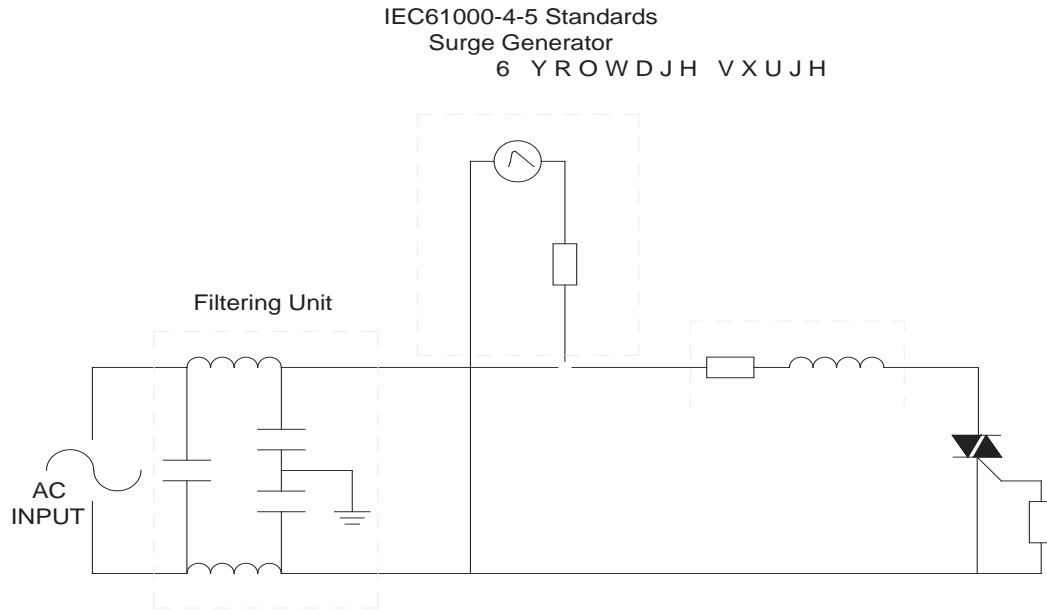


FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



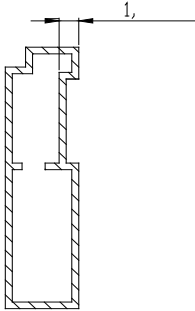
ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		H- I- J	K			
JST134K-800E	800	10	25	TO-252	80	Tube
JST134K-800E-TR					2,500	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.22, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

DELIVERY MODE



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