

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)		V _{DRM}	800	V
Repetitive peak reverse voltage (T _j =25)		V _{RRM}	800	V
RMS on-state current (T _C 084)		I _{T(RMS)}	4	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)		I _{TSM}	25	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)			27.5	
I ² t value for fusing (t _p =10ms , T _j =25)		I ² t	3.125	A ² s
Critical rate of rise of on-state current (I _G =2×I _{GT} , f=100Hz , T _j =125)	- -	di/dt	70	A s
			40	
Peak gate current (t _p =20 s , T _j =125)		I _{GM}	2	A
Average gate power dissipation (T _j =125)		P _{G(AV)}	0.5	W
Peak gate power		P _{GM}	5	W
Peak pulse voltage (T _j =25 ; 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
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FIG.1: Maximum power dissipation versus RMS on-state current

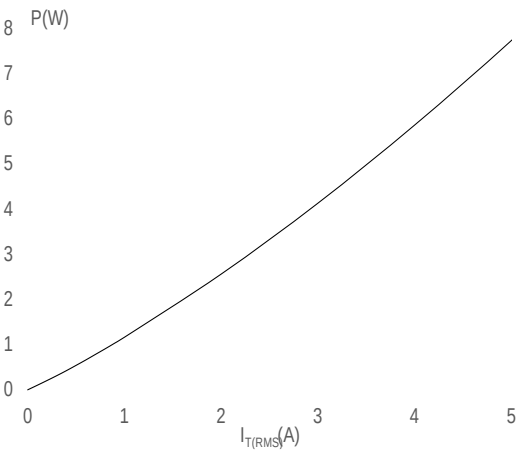


FIG.2: RMS on-state current versus case temperature

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

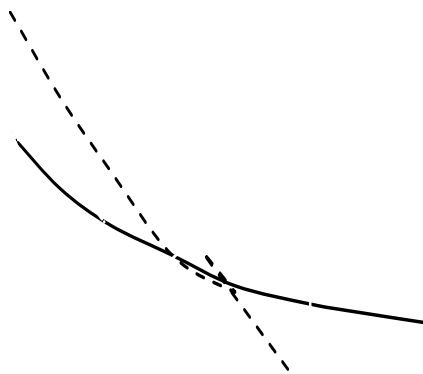
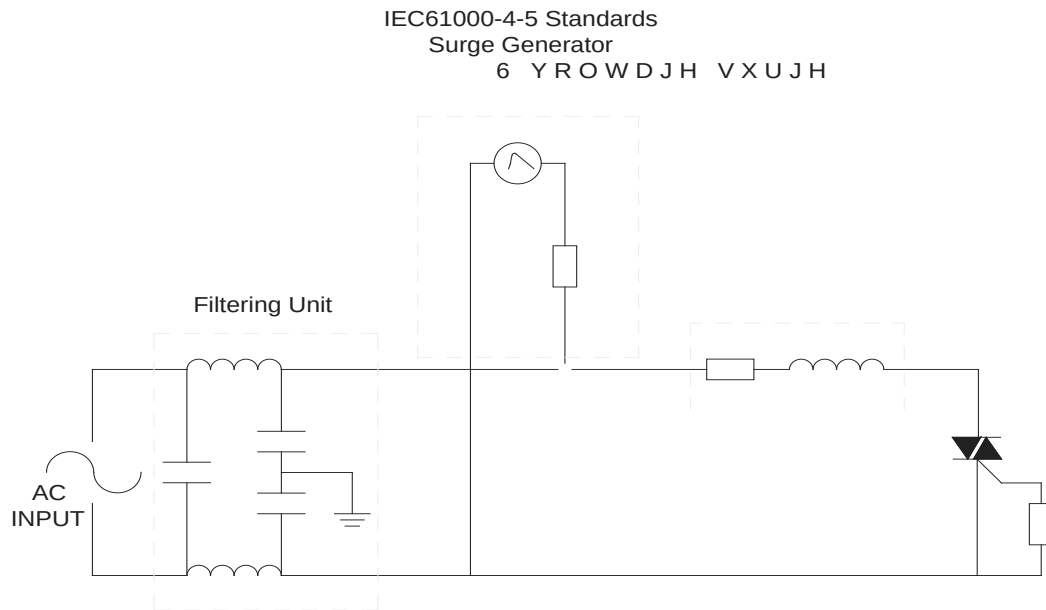


FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



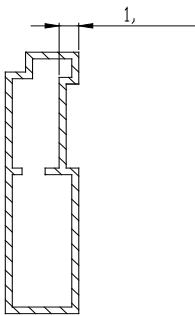
ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (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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