

T0850H-8C 8A TRIAC

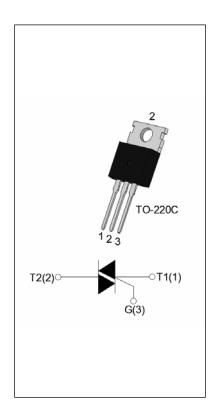
Rev.A.1.0

DESCRIPTION:

The T0850H-8C 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. Compared to traditional triacs, T0850H-8C provides a very high switching capability up to junction temperatures of 150°C. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
I _{T(RMS)}	8	Α
VDRM/VRRM	800	V
lgт / /	50/50/50	mA



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T _{stg}	-40-150	
Operating junction temperature range	Tj	-40-150	
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 134)	I _{T(RMS)}	8	Α
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)	1	80	^
Non repetitive surge peak on-state current (full cycle , t_p =16.6ms , T_j =25)	Ітѕм	88	Α
I ² t value for fusing (t _p =10ms , T _j =25)	l ² t	32	A ² s
Critical rate of rise of on-state current (I_{G} =2 I_{GT} , f=100Hz, T_{j} =150)	dl/dt	100	A/µs
Peak gate current (tp=20µs , Tj=150)	I _{GM}	4	Α
Average gate power dissipation (T _j =150)	P _{G(AV)}	1	W
Peak gate power	P _{GM}	10	W



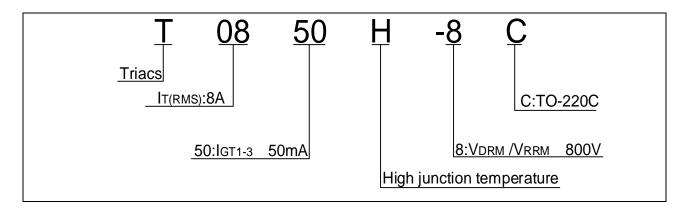
Peak pulse voltage	V	2.5	I//
(T _j =25 ; non-repetitive,off-state;FIG.7)	V pp	3.5	ΚV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit	
Ідт	V _D =12V R _L =33		MAX.	50	mA	
V _G T	VD=12V KL=33		MAX.	1	V	
V _{GD}	$V_D = V_{DRM} T_j = 150$ $R_L = 3.3 K$		MIN.	0.2	V	
IL	l. 1.40l		- MAY	MAX.	60	mA
"L	IL IG=1.2IGT MA	IVIAA.	90	IIIA		
Ін	I _T =100mA		MAX.	55	mA	
dV/dt	V _D =540V Gate Open T _j =150		MIN.	2500	V/µs	

 $m \hspace{0.5cm} A\,Z\,\ddot{o}\,M\,\,d\,\hat{A}$

ORDERING INFORMATION



MARKING

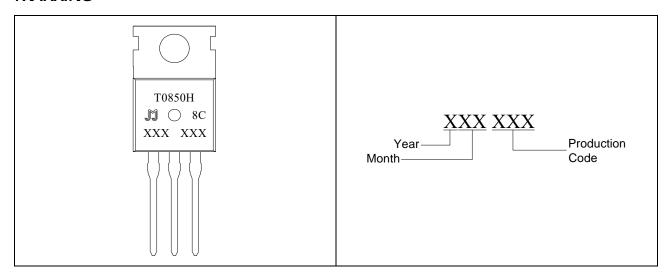


FIG.1 Maximum power dissipation versus RMS on-state current

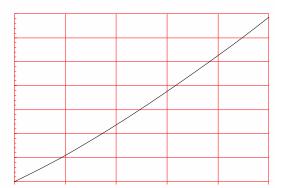


FIG.2: RMS on-state current versus case temperature

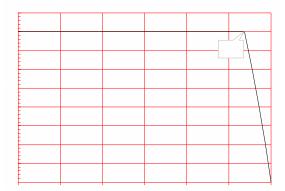
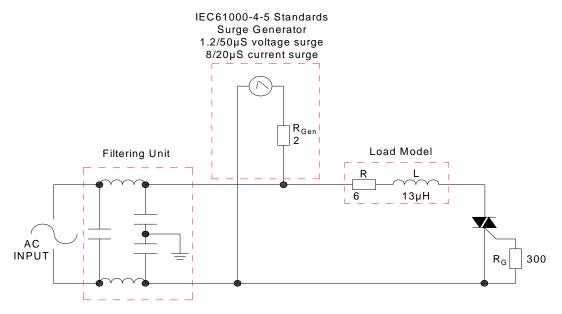


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



SHAPING AND SOLDERING PARAMETERS

Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie

ORDERING INFORMATION

	Voltage	IGT(mA)		Base qty. (pcs)	Delivery mode
Order code	VDRM/VRRM (V)		Package		
T0850H-8C	800	50	TO-220C	50	Tube

Document Revision History

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated



PACKAGE MECHANICAL DATA





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