T835H-8A 8A TRIAC

Rev.A.1.1

The T835H-8A triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as static relay, heating regulation, induction motor starting circuits, or for phase control operation in light dimmers, motor speed controllers. Compared to traditional triacs, T835H-8A provides very high switching capability up to junction temperature of 150°C. By using an internal ceramic pad, T835H-8A provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220F, RoHS compliant.

Symbol	Value	
$I_{T(RMS)}$	8	A S(V -0.002 T6 0.002 T6 8.04 0 0 8.04 86.7 (R)43

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-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 ($T_C \leq$ 118)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	80	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		88	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	32	A^2s
Critical rate of rise of on-state current (I_G=2 × I_{GT} , f=100Hz , T_j=150)	dI/dt	100	A s
Peak gate current (t_p=20 s , T_j=150)	I_{GM}	4	A

T 8 35 H -8 A

- T: Triacs
- 8: $I_{T(RMS)}$:8A
- 35: $I_{GT1-3} \leq 35mA$
- H: High junction temperature
- -8: V_{DRM} /$V_{RRM} \geq 800V$
- A: A:TO-220A(Ins)

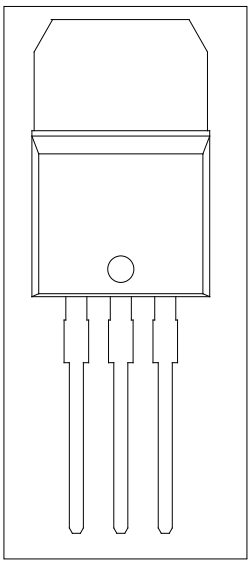


FIG.1: Maximum power dissipation versus RMS on-state current

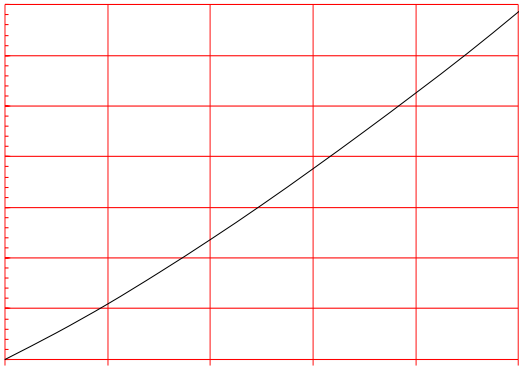
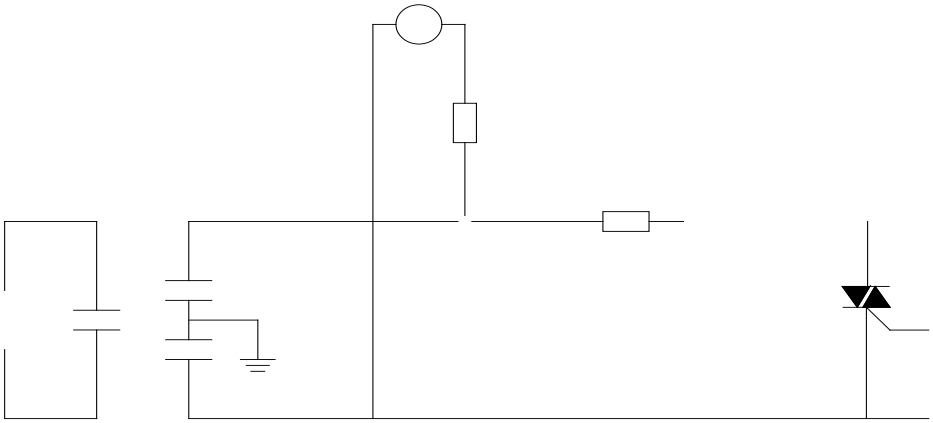
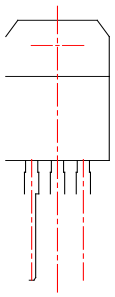


FIG.2: RMS on-state current versus case temperature

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







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