T0435H-6E 4A TRIAC

Rev.A.1.0

The T0435H-6E 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, T0435H-6E provides a very high switching capability up to junction temperatures of 150°C. Package TO-263 is RoHS compliant.

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}	600	V

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.8)	V_{pp}	4	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	35	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	D DRM L	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}				
				50	
I_H	I_T =100mA		MAX.	30	mA
dV/dt	V_D=400V Gate Open T_j =150		MIN.	1200	V/μs
(dI/dt)c	(dV/dt)c=20V/μs, T_j=150		MIN.	8	A/ms
t_{on}	I_G=40mA I_A=200mA I_R=20mA T_j=25		TYP.	3	μs
t_{off}				30	

Symbol	Parameter	Value(MAX.)	Unit
V_{TM}	I_{TM} =5.5A t_p=380μs T_j=25		

T 04 35 H -6 E -/

- T: Triacs
- 04: $I_{T(RMS)}$:4A
- 35: I_{GT1-3} 35mA
- H: High junction temperature
- -6: V_{DRM} /V_{RRM} 600V
- E: TO-263
- -/: Blank:Tube; -TR:Tape & Reel

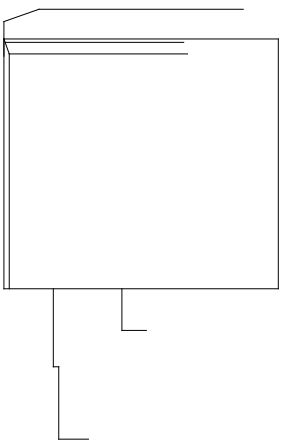


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

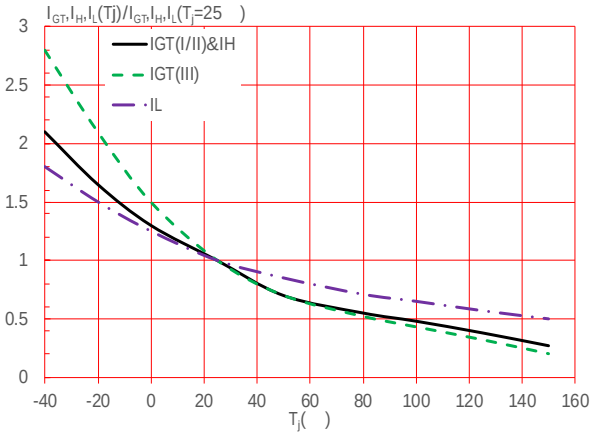
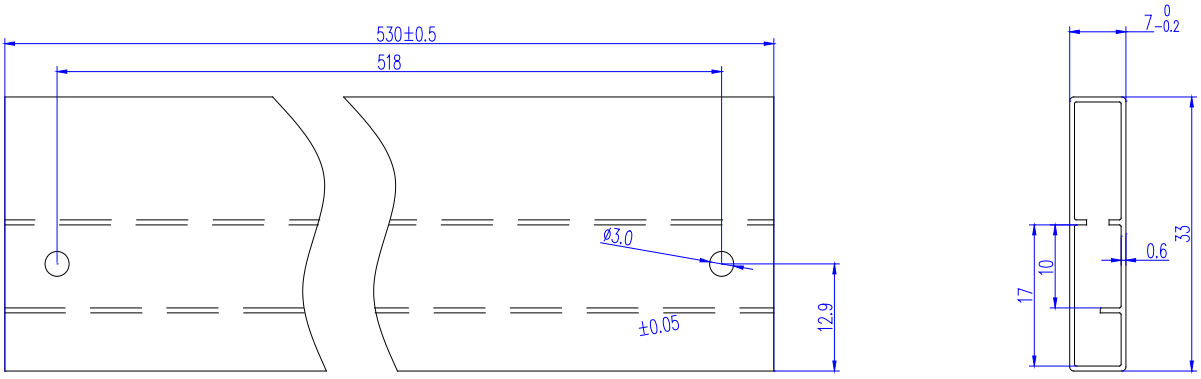


FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards


530±0.5
518
Ø3.0
±0.05
12.9
7 0 -0.2
0.6
33
10
17

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