

DESCRIPTION:

The T0610H-8E 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, T0610H-8E provides a very high switching capability up to junction temperatures of 150°C. It can be driven directly through the MCU I/O port. Package TO-263 is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM}/V_{RRM}	800	V
$I_{GT} / /$	10/10/10	mA

ABSOLUTE MAXIMUM RATINGS

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 ($T_j=25^\circ\text{C}$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	800	V
RMS on-state current ($T_c 0132^\circ\text{C}$)	$I_{T(RMS)}$	6	A
Non repetitive surge peak on-state current (full cycle, $t_p=20\text{ms}$, $T_j=25^\circ\text{C}$)	I_{TSM}	60	A
Non repetitive surge peak on-state current (full cycle, $t_p=16.6\text{ms}$, $T_j=25^\circ\text{C}$)		66	
I^2t value for fusing ($t_p=10\text{ms}$, $T_j=25^\circ\text{C}$)	I^2t	18	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100\text{Hz}$, $T_j=150^\circ\text{C}$)	di/dt	50	A/s
Peak gate current ($t_p=20\text{ s}$, $T_j=150^\circ\text{C}$)	I_{GM}	4	A
Average gate power dissipation ($T_j=150^\circ\text{C}$)	$P_{G(AV)}$	1	W

ORDERING INFORMATION

<u>T</u>	<u>06</u>	<u>10</u>	<u>H</u>	<u>-8</u>	<u>E</u>	<u>-/</u>
Triacs						Blank:Tube -TR:Tape & Reel
<u>IT(RMS):6A</u>					<u>E:TO-263</u>	
	<u>10:IGT1-3 010 mA</u>			<u>8:VDRM /VRRM 1800 V</u>		
			<u>High junction temperature</u>			

MARKING

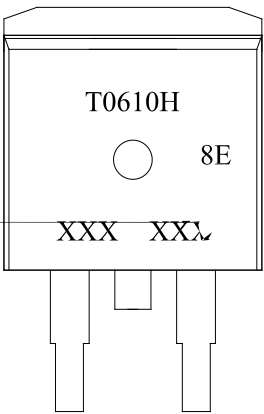


FIG.1 Maximum power dissipation versus RMS
on-state current

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

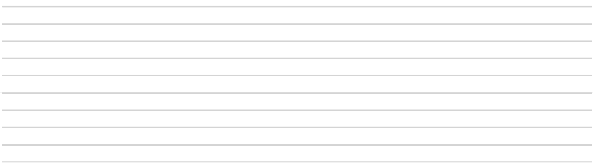
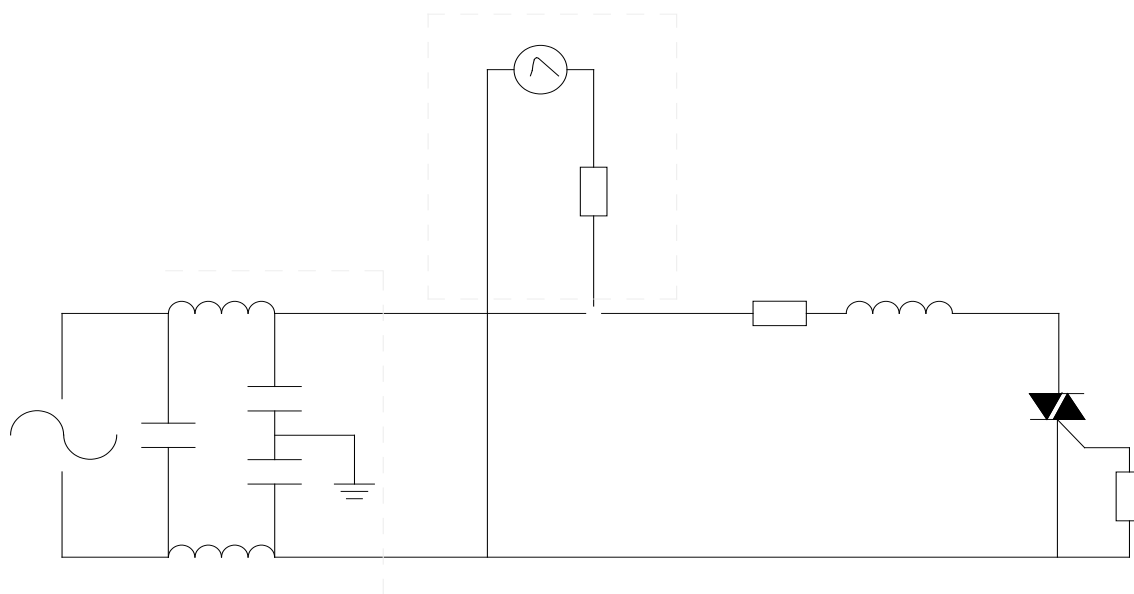


FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



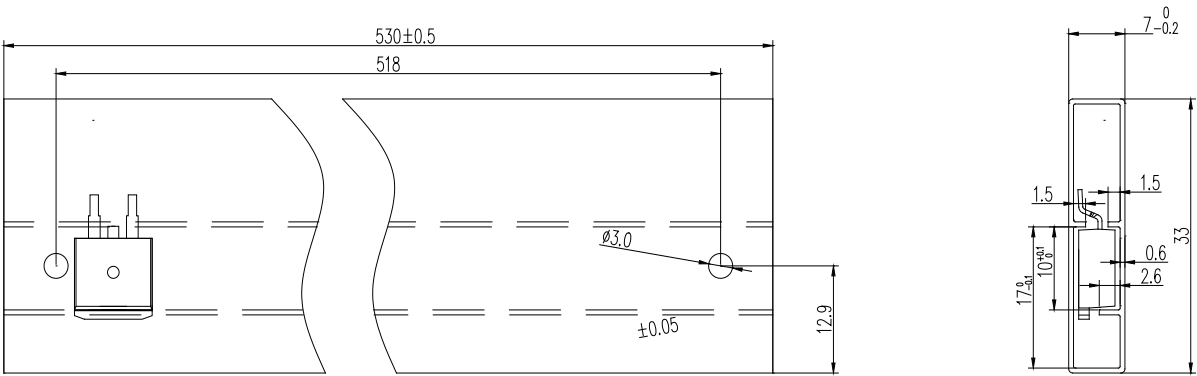
ORDERING INFORMTON

Order coe	Voltage V _{DRM} /V _{RRM} (V)	IGT(m)	Packag	Base qty.	mode
		- -			
T0610H-8E-TR				800	Tape Reel

Document Revision History

Date	Revision	Changes
Apr. 3	A.1.0	Last upd

DELIVERY MODE



PACKAGE	OUTLINE	TUBE (PCS)	INNER BOX (PCS)	PER CARTON
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TO-263 R Tm 6 (E-8.6 (UBE))TJ 0 T9 0 Td ()Tj E-0.001 Tw4MCID 10 >>-)Tj 0.001 Tc -0.9.354 1.65950Td (26

Information furnished in this document is believed to be accurate and reliable. However,