



T0450H-6F 4A TRIAC

Rev.A.1.1

DESCRIPTION:

The T0450H-6F 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, T0450H-6F provides a very high switching capability up to junction temperatures of 150°C. By using an external plastic package, T0450H-6F provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

MAIN FEATURES

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}	600	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	600	V
RMS on-state current ($T_C \leq 129^\circ\text{C}$)	$I_{T(RMS)}$		

Average gate power dissipation (T _j =150)	P _{G(AV)}	1	W
Peak gate power			

ORDERING INFORMATION

T	04	50	H	-6	F
Triacs	$I_T(RMS):4A$				F:TO-220F(Ins)
	$50:I_{GT1-3} \leq 50mA$			$6:V_{DRM} / V_{RRM} \geq 600V$	
			High junction temperature		

MARKING

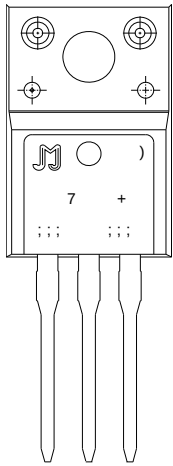
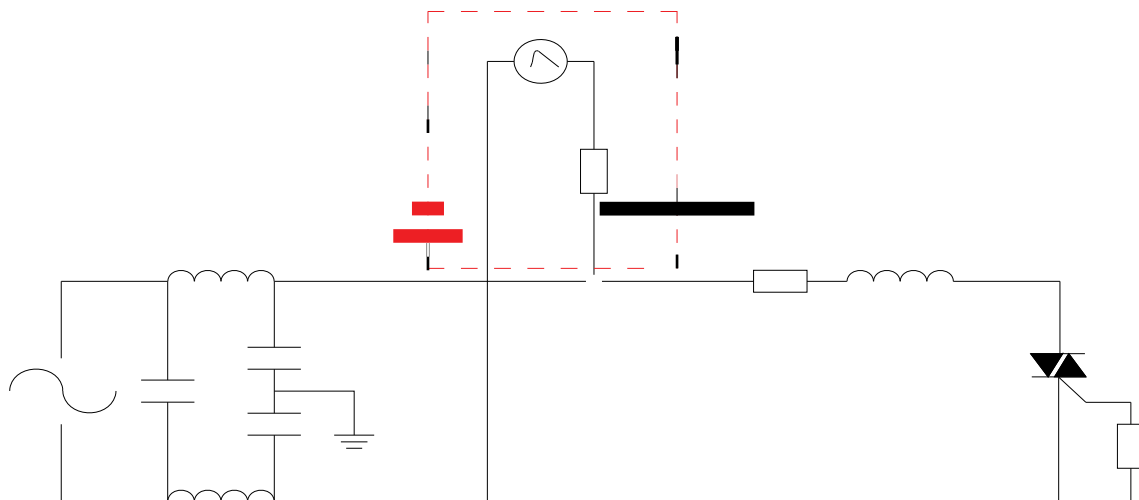


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(Ma)	Package	Base qty. (pcs)	Delivery mode
		H- I- J			
T0450H-6F	600	50	TO-220F(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.10, 2023	A.1.0	Last updated
Oct.10,2025	A.1.1	Revise PACKAGE MECHANICAL DATA

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