T1610H-8A 16A TRIAC

DESCRIPTION:

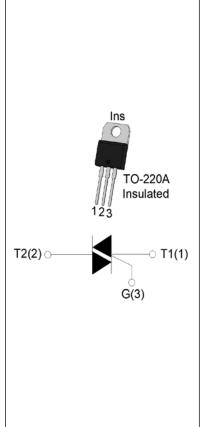
The T1610H-8A triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Compared to traditional triacs, T1610H-8A provides a very high switching capability up to junction temperatures of 150°C. It can be driven directly through the MCU I/O port. By using an internal ceramic pad, T1610H-8A provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
IT(RMS)	16	А
Vdrm /Vrrm	800	V
І дт / /	10/10/10	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 (Tj=25)	Vdrm	800	V
Repetitive peak reverse voltage ($T_j=25$)	V _{RRM}	800	V
RMS on-state current (Tc 108)	I _{T(RMS)}	16	А
Non repetitive surge peak on-state current (full cycle , $t_p=20ms$, $T_j=25$)	Ітѕм	160	A
Non repetitive surge peak on-state current (full cycle , $t_p=16.6ms$, $T_j=25$)		176	
$I^{2}t$ value for fusing (t _p =10ms , T _j =25)	l ² t	128	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

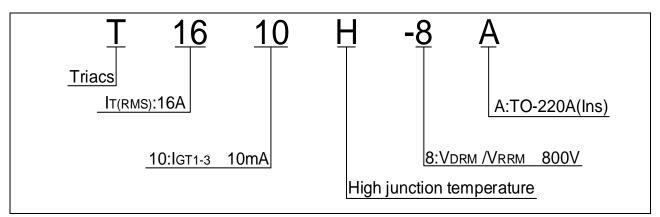


T1610H-8A

Peak gate current ($t_p=20\mu s$, $T_j=150$)

j

ORDERING INFORMATION



MARKING

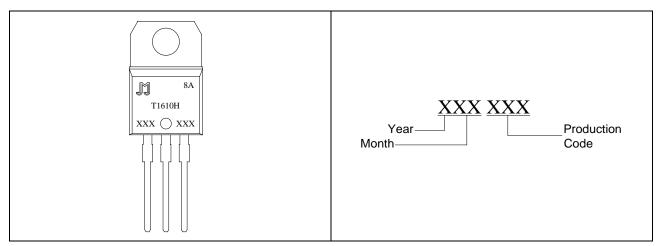
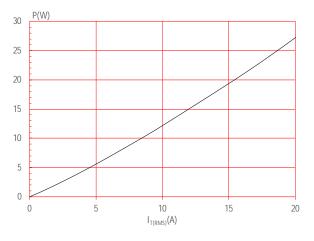
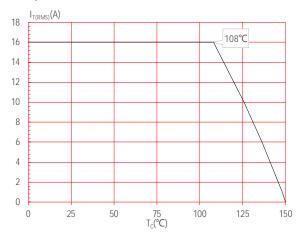


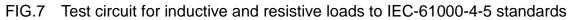
FIG.1 Maximum power dissipation versus RMS on-state current

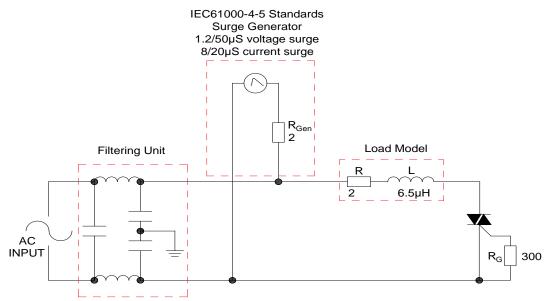


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FIG.2: RMS on-state current versus case temperature







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.	Delivery
Order code	Order code V _{DRM} /V _{RRM} (V)		Package	(pcs)	mode
T1610H-8A	800	10	TO-220A(Ins)	50	Tube

Document Revision History

Date	Revision	Changes
Apr.10, 2023	A.1.0	Last updated

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