T1650H-8E 16A TRIAC

Rev.A.1.0

DESCRIPTION:

The T1650H-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, T1650H-8E provides a very high switching capability up to junction temperatures of 150°C. Package TO-263 is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating			

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

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33	- -	MAX.	50	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	V_D =V_{DRM} T_j =150 R_L =3.3K	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}	-	MAX.	80	mA
				100	
I_H	I_T =500mA		MAX.	60	mA
dV/dt	V_D=540V Gate Open T_j =150		MIN.	1800	V s
(dI/dt)c	G 9 G W F j=150V 7		MIN.	25	A/ms

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ORDERING INFORMATION

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- T: Triacs
- 16: $I_{T(RMS)}$:16A
- 50: I_{GT1-3} 050 mA
- H: High junction temperature
- -8: V_{DRM} /V_{RRM} 1800 V
- E: TO-263
- -/: Blank:Tube; -TR:Tape & Reel

MARKING

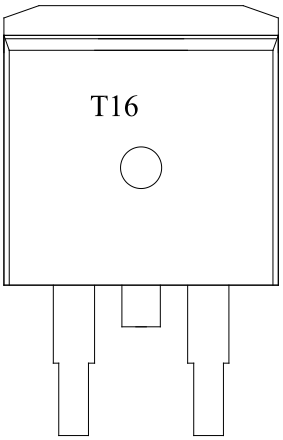
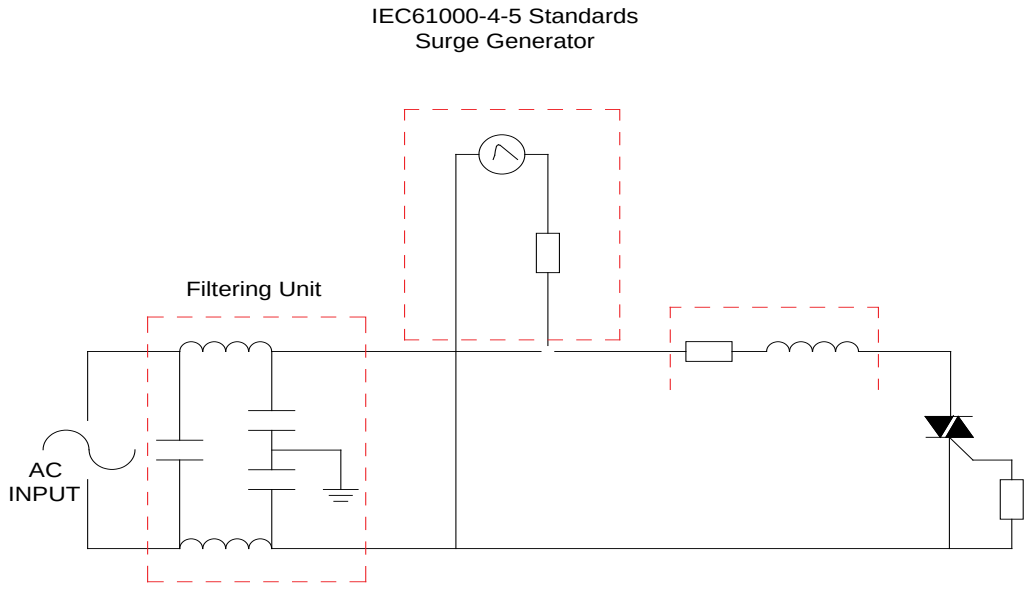


FIG.1 Maximum power dissipation versus RMS on-state current

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

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



T1650H-8E

DELIVERY MODE

