T1620H-6C 16A TRIAC

Rev.A.1.1

DESCRION

The T1620H-6C triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heatng regulation, induction motor starting circuits, for phe control operation in light dimmers, motor speed controllers. Compared to traditional triacs, T1620H-6C provides a very high switching capability up to junction temperatures of 150°C. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.

MAIN FEATURES

ABOLUTE MAXIMUM RINS

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) -50

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	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.	20	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	D DRM L	- -	MIN.	0.2	V
I_L	I_G =1.2I_{GT}			55	
I_H	I_T =500mA		MAX.	30	mA
dV/dt	V_D=400V Gate Open T_j =150		MIN.	1200	V s
(dI/dt)c	G 9 G W F j=9150V 7		MIN.	12	A/ms
t_{on}	I_G=40mA I_A=200mA I_R=20mA T_j=25		TYP.	8	s
t_{off}				60	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX .)	Unit
V_{TM}	I_{TM} =22.5A t_p=380 s	T_j=25	1.4	V
V_{TO}	Threshold voltage	T_j=150	0.75	V
R_D	Dynamic resistance	T_j=150	27	P
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	A
I_{RRM}		T_j=150	1.5	mA

ORDERING INFORMATION

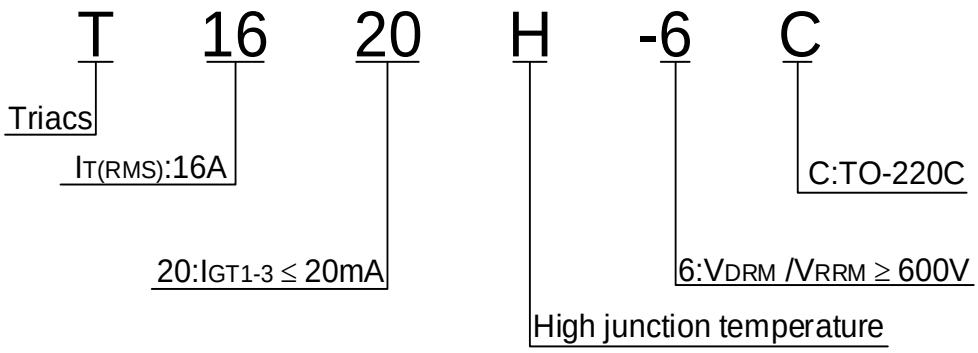


FIG.7 Test circuit for inductive and resistive loads to IEC

T1620H-6C

PACKAGE MECHANICAL DATA

