



The T1650H-6C triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in

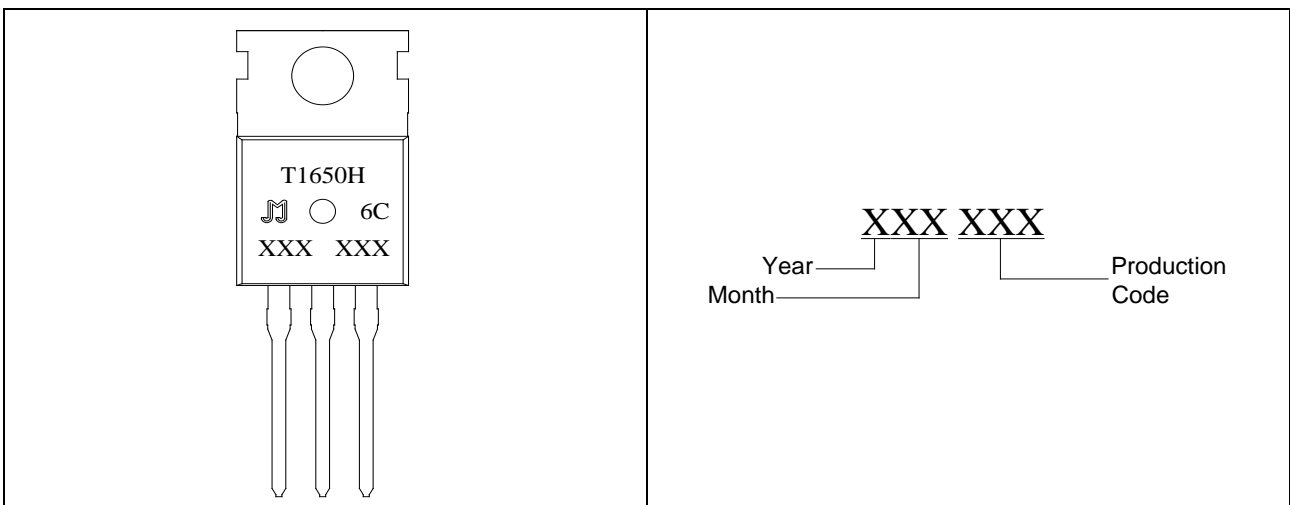
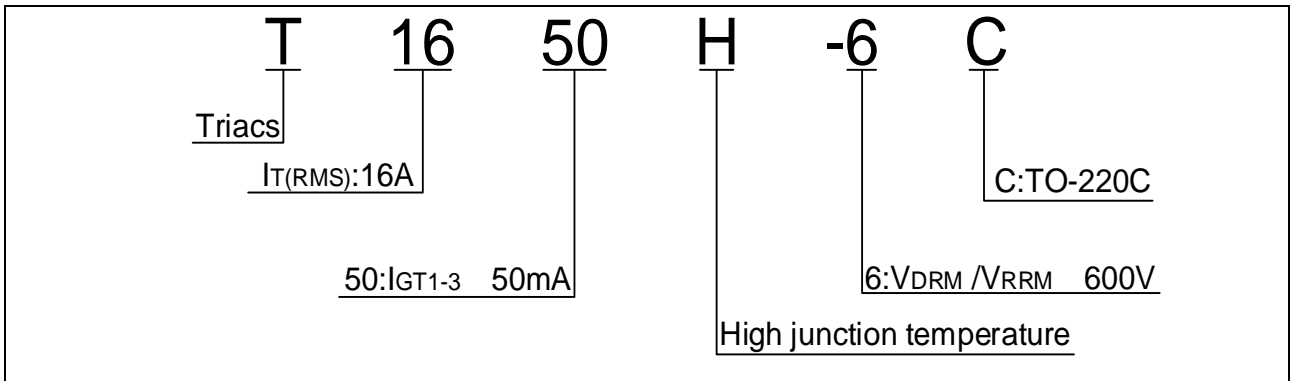
Peak pulse voltage ( $T_j=25$ ; non-repetitive,off-state;FIG.7)	$V_{pp}$	4	kV
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( $T_j=25$  unless otherwise specified)

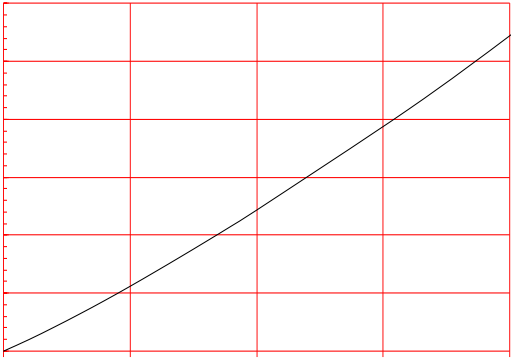
Symbol	Test Condition	Quadrant	Value		Unit
$I_{GT}$	$V_D=12V R_L=33$	- -	MAX.	50	mA
$V_{GT}$		- -	MAX.	1	V
$V_{GD}$	$V_D=V_{DRM} T_j=150$ $R_L=3.3K$	- -	MIN.	0.2	V
$I_L$	$I_G=1.2I_{GT}$	-	MAX.	80	mA
				100	
$I_H$	$I_T=500mA$		MAX.	60	mA
$dV/dt$	$V_D=400V$ Gate Open $T_j=150$		MIN.	2000	V s
$(dI/dt)_c$	$j=150$		MIN.	25	A/ms
$t_{on}$	$I_G=80mA I_A=400mA I_R=40mA$ $T_j=25$		TYP.	12	s
$t_{off}$				80	

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	
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	5	A
$I_{RRM}$		$T_j=150$	1.5	mA

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	1.1	$\text{W}$
$R_{th(j-a)}$	junction to ambient (AC)	60	$\text{W}$



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



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

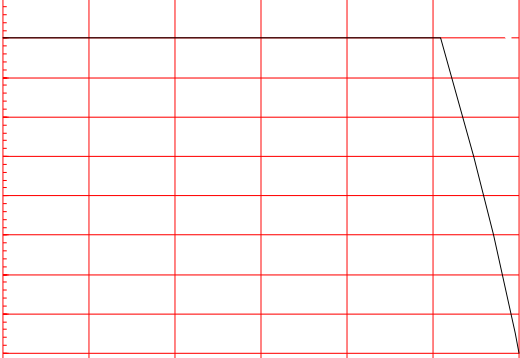
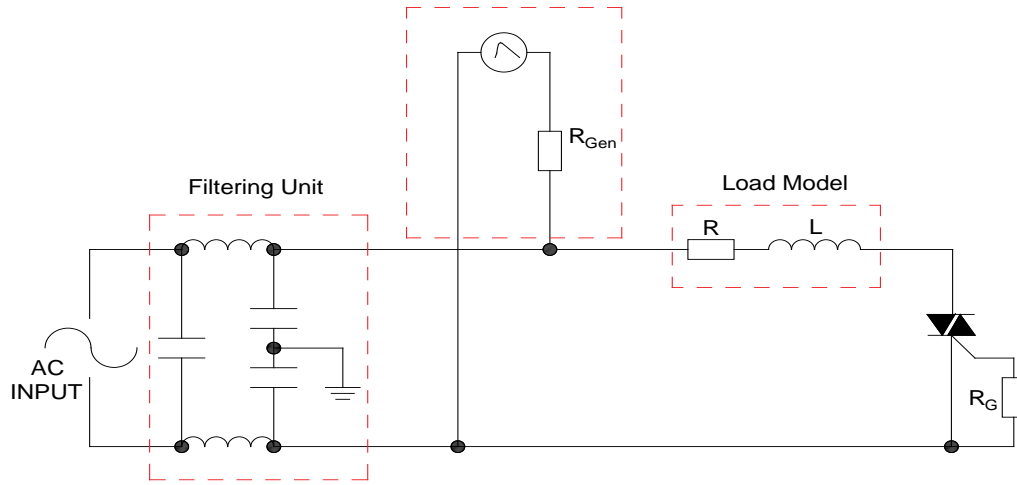


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

IEC61000-4-5 Standards  
Surge Generator



Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie

Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T1650H-6C	600	50	TO-220C	50	Tube

### Document Revision History

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



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