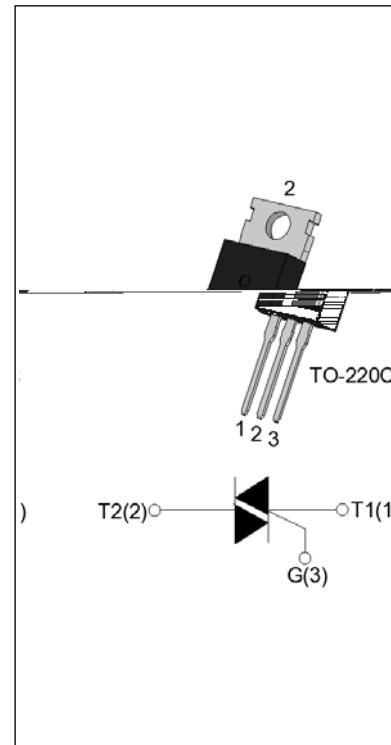




The T1635H-6C triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Compared to traditional triacs, T1635H-6C provides a very high switching capability up to junction temperatures of 150°C. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.



Symbol	Value	Unit
$I_{T(RMS)}$	16	A
V_{DRM}/V_{RRM}	600	V
$I_{GT} / /$	35/35/35	mA

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 ($T_j=25^\circ C$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	600	V
RMS on-state current ($T_c = 127^\circ C$)	$I_{T(RMS)}$	16	A
Non repetitive surge peak on-state current (full cycle , $t_p=20ms$, $T_j=25^\circ C$)	I_{TSM}	160	A
Non repetitive surge peak on-state current (full cycle , $t_p=16.6ms$, $T_j=25^\circ C$)		176	
I^2t value for fusing ($t_p=10ms$, $T_j=25^\circ C$)	I^2t	128	A^2s
Critical rate of rise of on-state current ($I_G=2 \text{ mA}$, $f=100\text{Hz}$, $T_j=150^\circ C$)	di/dt	100	A/s
Peak gate current ($t_p=20\text{ ms}$, $T_j=150^\circ C$)	I_{GM}	4	A
Average gate power dissipation ($T_j=150^\circ C$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W

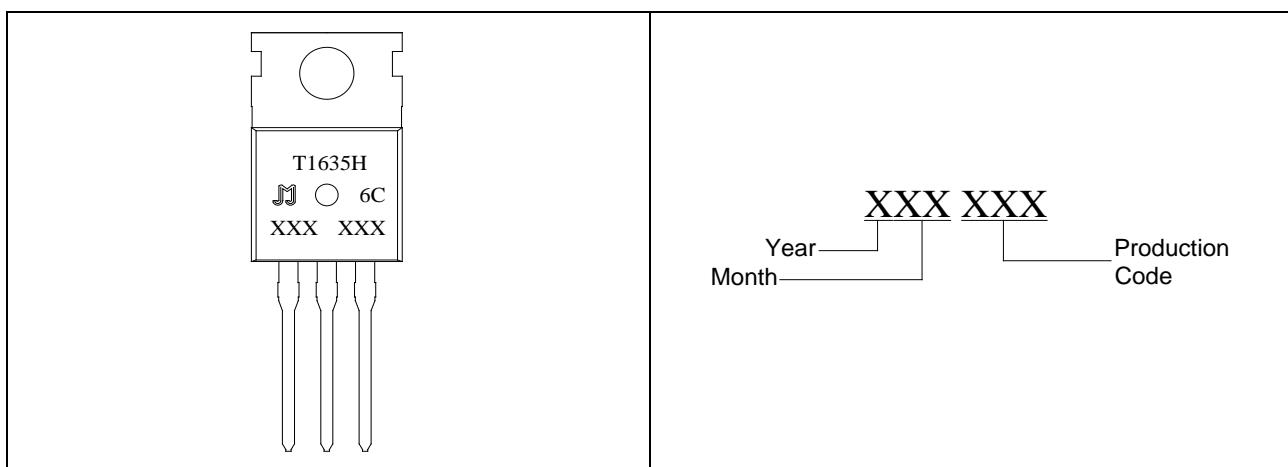
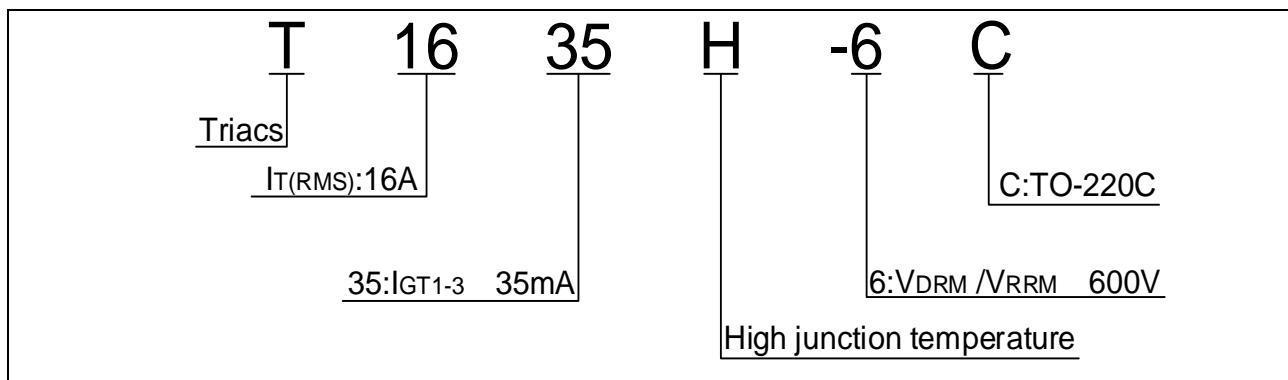
Peak pulse voltage ($T_j=25^\circ C$; non-repetitive,off-state;FIG.7)	V_{pp}	4	kV
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($T_j=25^\circ C$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V R_L=33$	- -	MAX.	35	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM} T_j=150^\circ C$ $R_L=3.3K$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	50	mA
I_H				70	
dV/dt	$V_D=400V$ Gate Open $T_j=150^\circ C$		MIN.	1500	V/s
$(dI/dt)c$	$j=150$		MIN.	15	A/ms
t_{on}	$I_G=40mA I_A=200mA I_R=20mA$ $T_j=25^\circ C$	TYP.	8	s	
t_{off}			60		

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

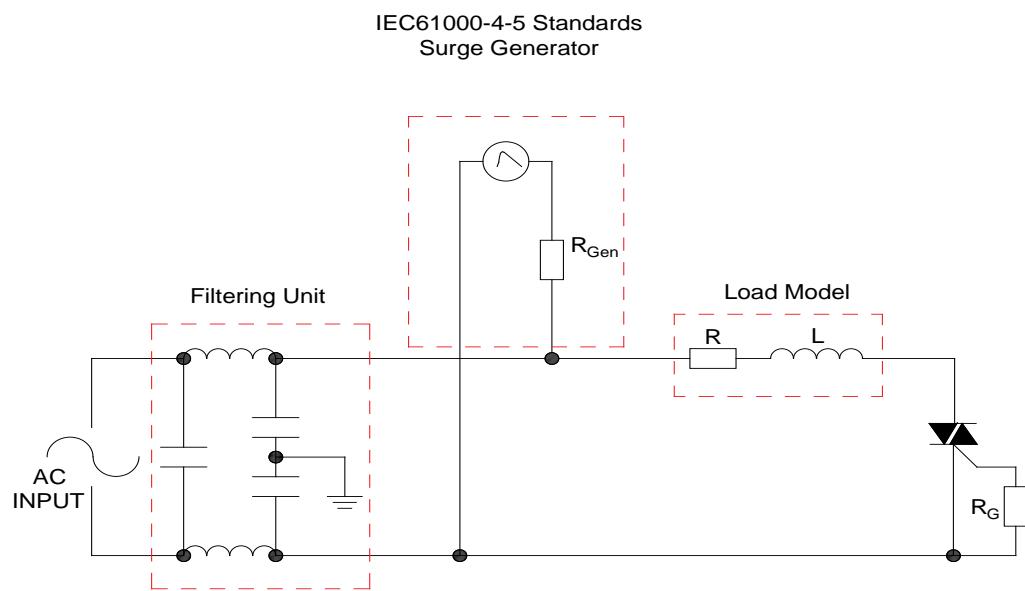
Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	1.1	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W



T1635H-6C

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

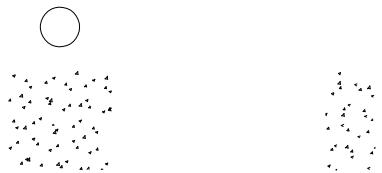


Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T1635H-6C	600	35	TO-220C	50	Tube

Document Revision History

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



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