



T0635H-8C 6A TRIAC

Rev.A.1.0

DESCRIPTION:

The T0635H-8C 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, light dimmers, motor speed controllers. Compared to traditional triacs, T0635H-8C 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

ABSOLUTE MAXIMUM RATINGS

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 °C)	V _{DRM}	800	V
Repetitive peak reverse voltage (T _j =25 °C)	V _{RRM}	800	V
RMS on-state current (T _c = 130 °C)	I _{T(RMS)}	6	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25 °C)	I _{TSM}	60	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25 °C)		66	
I ² t value for fusing (t _p =10ms , T _j =25 °C)	I ² t	18	A ² s
Critical rate of rise of on-state current (I _G =2 I _{GT} , f=100Hz , T _j =150 °C)			

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Peak pulse voltage (T _j =25 °C; non-repetitive, off-state; FIG.7)	V _{PP}	3	kV
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ELECTRICAL CHARACTERISTICS (T_j=25 °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 °C R _L =3.3K	- -	MIN.	0.2	V
I _L	I _G =1.2I _{GT}	-	MAX.	50	mA
				70	
I _H	I _T =100mA		MAX.	45	mA
dV/dt	V _D =540V Gate Open T _j =150 °C		MIN.	1000	V/μs
(dI/dt)c	(dV/dt)c=20V/μs, T _j =150 °C		MIN.	3	A/ms
t _{on}	I _G =40mA I _A =200mA I _R =20mA T _j =25 °C	TYP.	3	30	μs
t _{off}					

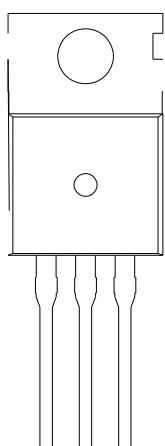
STATIC CHARACTERISTICS

Symbol	Parameter			Value(MAX.)	Unit
V _{TM}	I _{TM} =8.5A t _p =380μs		T _j =25 °C	1.4	V
V _{TO}	Threshold voltage		T _j =150 °C	0.8	V

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**ORDERING INFORMATION**

T	06	35	H	-8	C
Triacs					C:TO-220C
					8: V_{DRM} / V_{RRM} 800V
		35:I _G T1-3 35mA			High junction temperature

MARKING

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

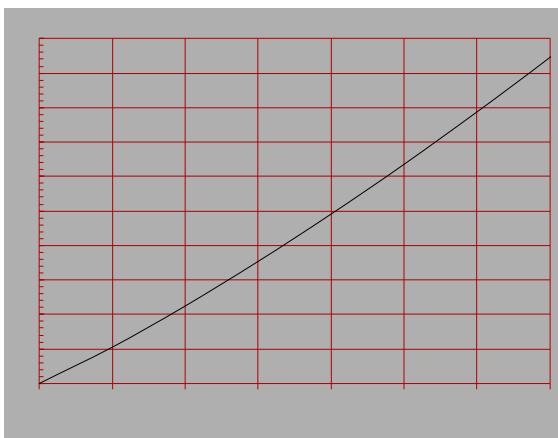


FIG.2: RMS on-state current versus case temperature

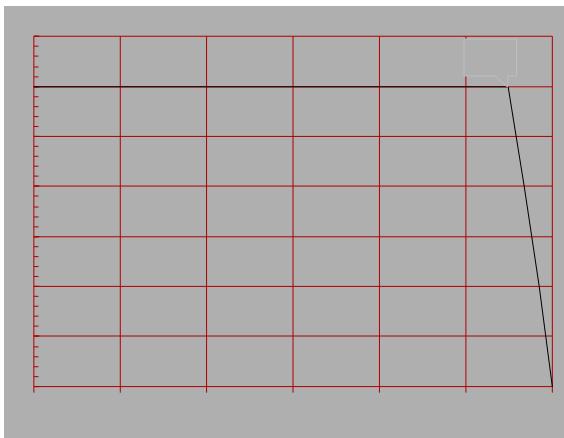


FIG.3: Surge peak on-state current versus number of cycles

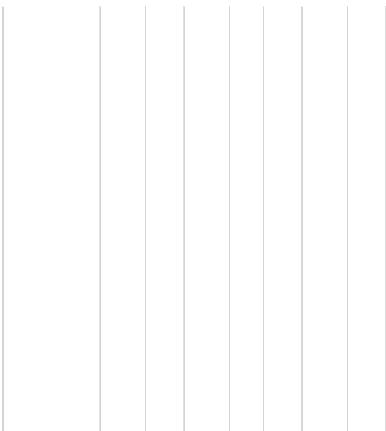
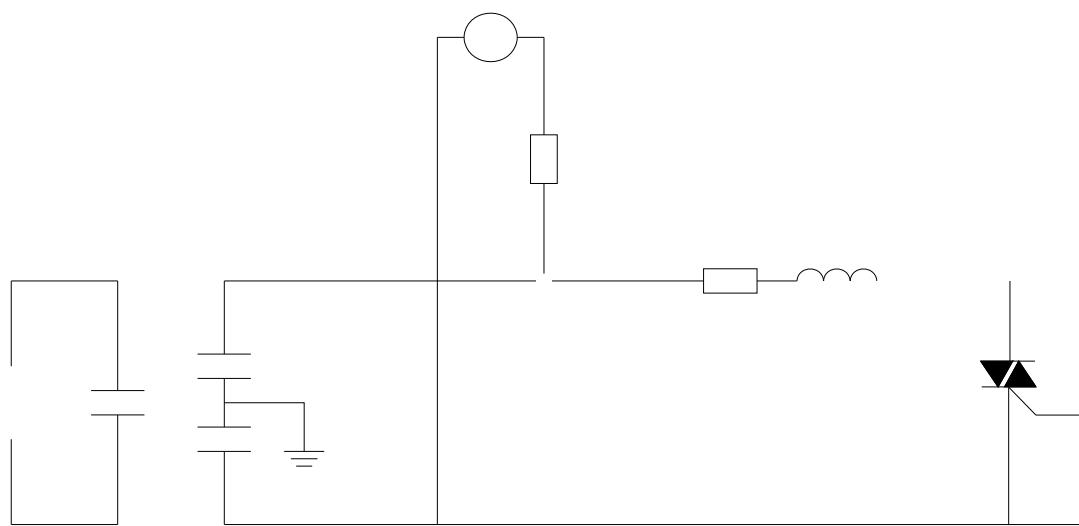


FIG.4: On-state characteristics



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



**ORDERING INFORMATION**

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T0635H-8C	800	35	TO-220C	50	Tube

Document Revision History

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

T0635H-8C



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