T0650H-8E 6A TRIAC

Rev.A.1.0

DESCRIPTION:

T0650H-8E is a triac in a TO-220AB plastic package.
It is suitable for AC switching applications.
Typical applications include motor control, industrial and domestic lighting, heating and static switching.

Repetitive peak off-state voltage (T_j=25 ; one cycle 50Hz/60Hz sine wave)	V_{DRM}	4	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise noted)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	I - III	MAX.	50	mA
V_{GT}		II - IV	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=150 R_L=3.3kΩ	I - III - IV	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	I - III	MAX.	70	mA
		II		100	
I_H	I_T=100mA		MAX.	50	mA
dV/dt	V_D=540V T_j=150		MIN.	1200	V/μs
$(dI/dt)c$	(dV/dt)c=20V/μs, T_j=150		MIN.	5	A/ms
t_{gd}	I_G=80mA I_A=400mA I_R=40mA T_j=25		TYP.	5	μs
t_q				50	

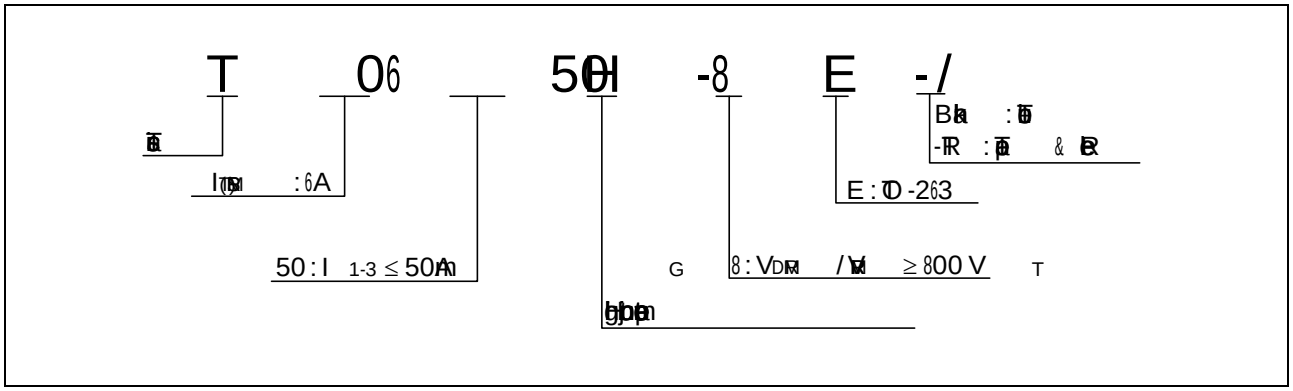
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=8.5A t_p=380μs	T_j=25	1.4	V
V_{TO}	Threshold voltage	T_j=150	0.8	V
R_D	Dynamic resistance	T_j=150	63	mΩ
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=150	1	mA

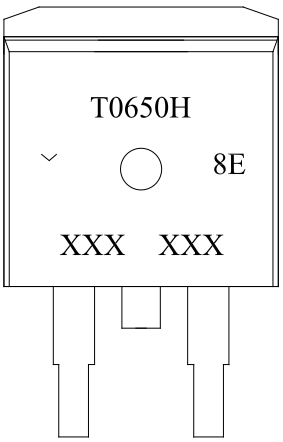
THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	Junction to case (AC)	2.3	/W
$R_{th(j-a)}$	Junction to ambient (AC, one cycle, S=2cm^2)	45	/W

ORDERING INFORMATION



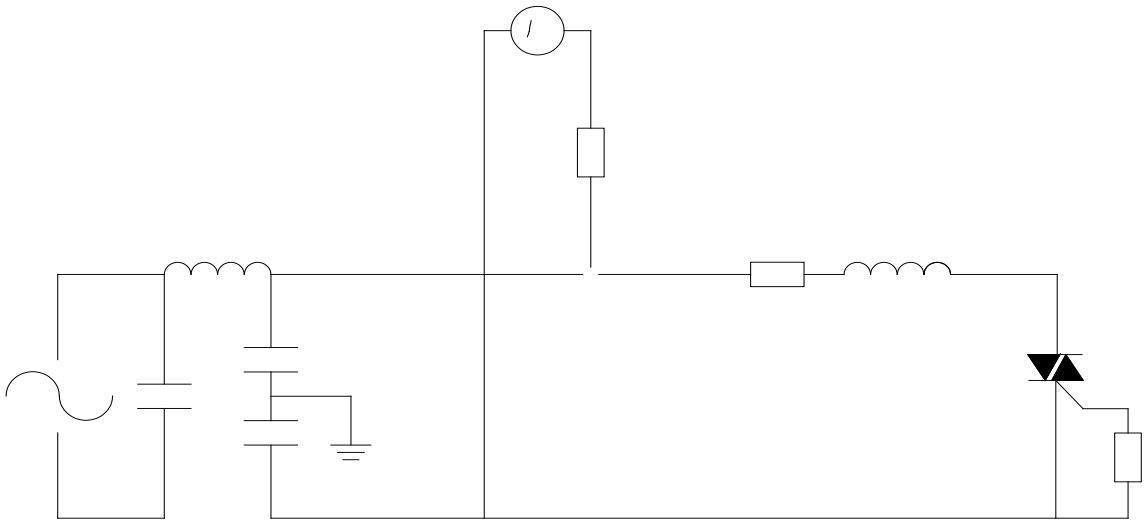
MARKING



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FIG.7: 1 . 1 (g

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DELIVERY MODE

