



T0620H-6F 6A TRIAC

Rev.A.1.1

DESCRIPTION:

The T0620H-6F 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, T0620H-6F provides a very high switching capability up to junction temperatures of 150°C. By using an external plastic package, T0620H-6F provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
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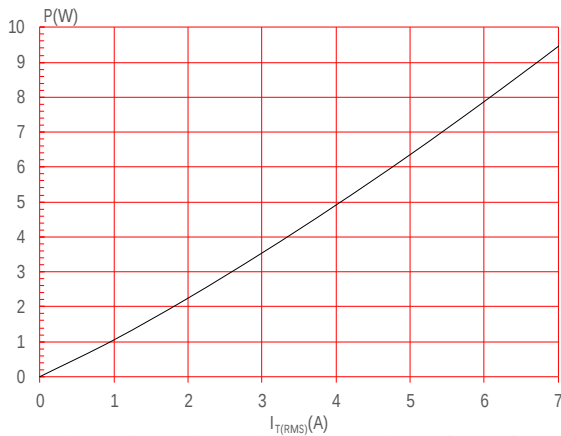
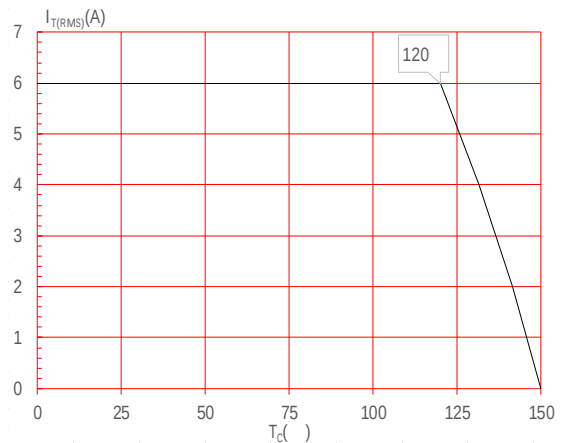
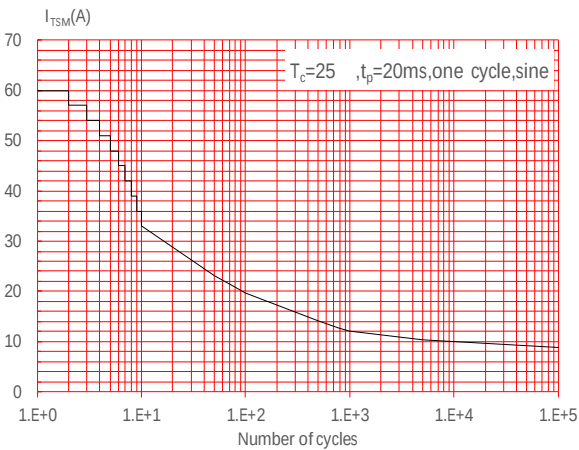
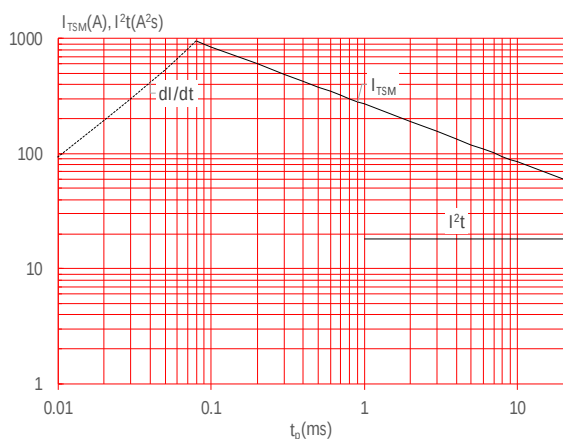
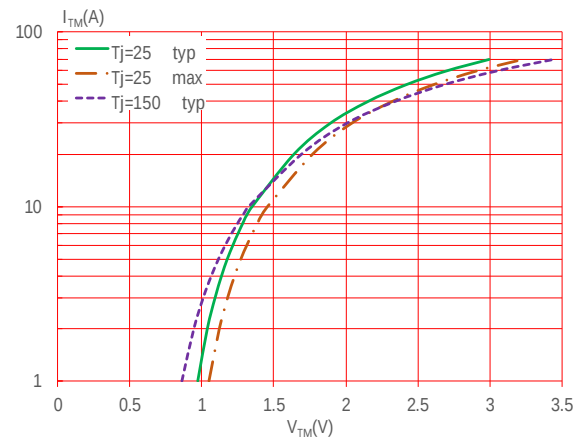
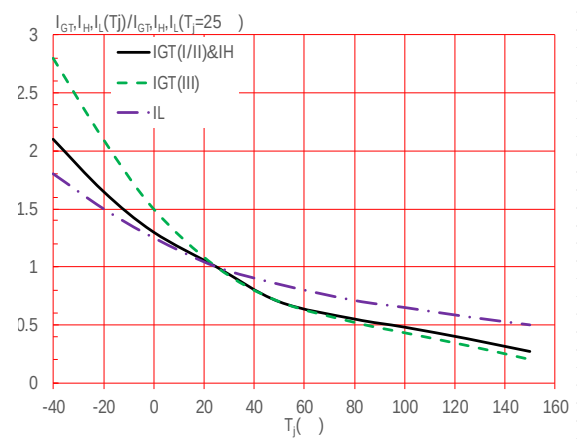
Average gate power dissipation ($T_j=150\text{ }^{\circ}\text{C}$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25\text{ }^{\circ}\text{C}$; non-repetitive, off-state; FIG. 7)	V_{pp}	3	kV

ELECTRICAL CHARACTERISTICS ($T_j=25\text{ }^{\circ}\text{C}$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12\text{V}$ $R_L=33\Omega$	- -	MAX.	20	mA

V_{GT} - - MAX. 1 V unuiV^m p ŷ

T0620H-6F

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.5: Non-repetitive surge peak on-state current for a sinusoidal pulse with width $t_p < 20ms$, and corresponding value of I^2t ($di/dt < 80A/\mu s$)

FIG.4: On-state characteristics

FIG.6: Relative variations of gate trigger current, holding current and latching current versus junction temperature


ORDERING INFORMATION

Order code	Voltage V _{DRM} /V _{R_{RM}} (V)	IGT(mA)	Package	Base qty. (pcs)
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