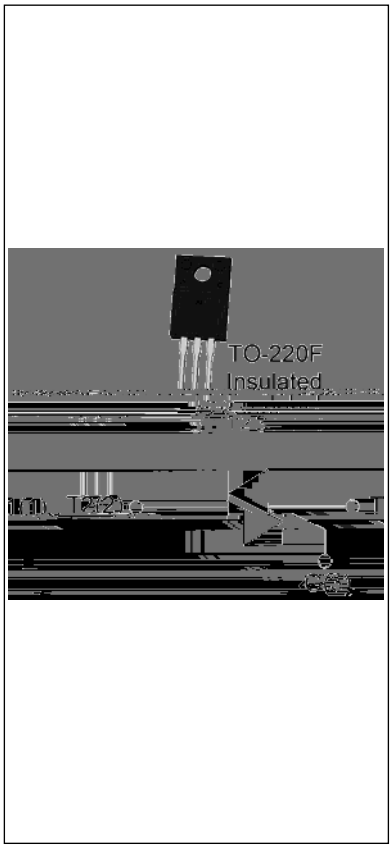
T0620H-8F 6A TRIAC

Rev.A.1.1

The T0620H-8F 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-8F provides a very high switching capability up to junction temperatures of 150°C. By using an external plastic package, T0620H-8F provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

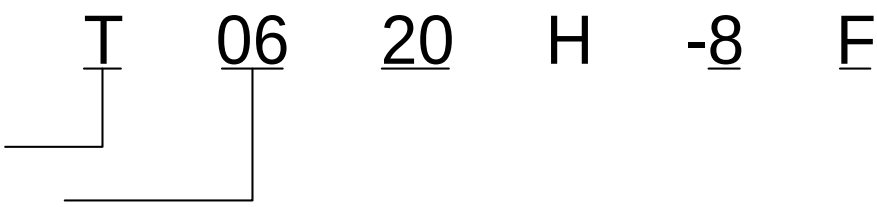


Symbol	Value	Unit
$I_{T(RMS)}$	6	A
V_{DRM} /V_{RRM}	800	V
I_{GT} / /	20/20/20	mA

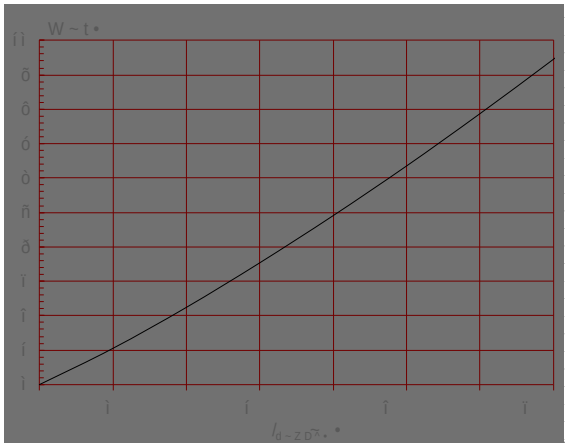
Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-150	
Repetitive peak off-state voltage (T_j=25)	V DRM	800	V
Repetitive peak reverse voltage (T_j=25)	V RRM	800	V
RMS on-state current (T_C 0120)	$I_{T(RMS)}$	6	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	60	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		66	
I^2t value for fusing (t_p=10ms , T_j=25)	I 2t	18	A^2s
Critical rate of rise of on-state current (I_G=2 hI GT , f=100Hz , T_j=150)	dI/dt	80	A/µs
Peak gate current (t_p=20µs , T_j=150)	I GM	4	A

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

(T_j=25 unless otherwise specified)


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FIGM nV. Maximum power dissipation versus RMS on-state current



FIGM fR. RMS on-state current versus case temperature

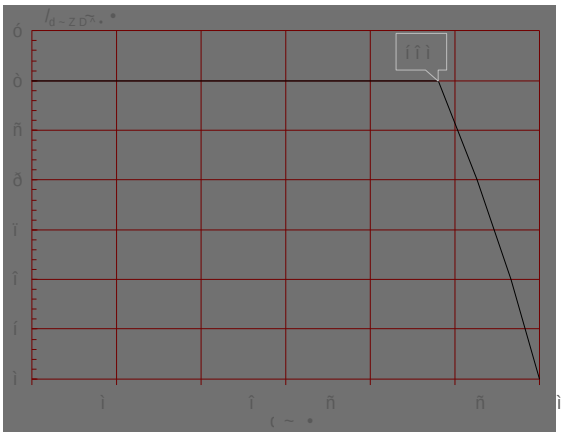


FIG.3: Surge peak on-state current versus number of cycles

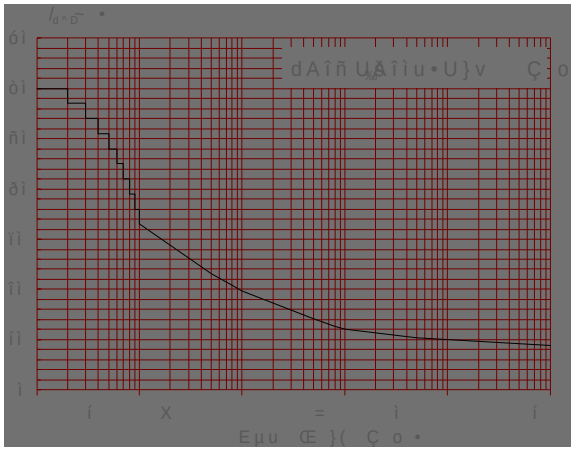


FIG.4: On-state characteristics

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(Ma)	

