

A TRIAC

Rev.A.1.1

ac is suitable for general purpose AC
e used as an ON/OFF function in
as heating regulation, induction motor
r phase control operation in light dimmers,
ollers. Compared to traditional triacs,
es a very high switching capability up to
res of 150°C. By using an external plastic
6F provides a rated insulation voltage of
lying with UL standards (File ref: E252906).
is RoHS compliant.

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}	600	V
Repetitive peak reverse voltage (T _j =25)	V _{RRM}	600	V
RMS on-state current (T _C ≤ 106)	I _{T(RMS)}	12	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)	I _{TSM}	120	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)		132	

Average gate power dissipation ($T_j=150^\circ\text{C}$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	10	W
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG. 7)	V_{pp}	4.5	kV

(T_j=25[°]C unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12\text{V}$ $R_L=33\Omega$	- -	MAX.	35	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=150^\circ\text{C}$ $R_L=3.3\text{k}\Omega$	- -	MIN.	0.2	V

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

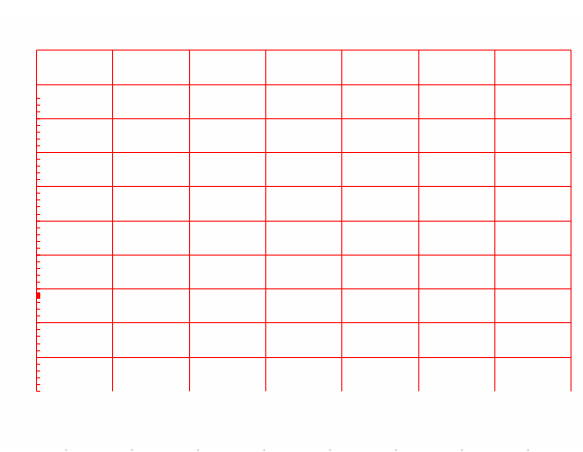


FIG.2: RMS on-state current versus case temperature

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



Order code	Voltage V _{DRM} /V _{R_{RM}} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T1235H-6F	600	35	TO-220F(Ins)	50	Tube

Document Revision History

Date	Revision
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