T3050H-8E 30A TRIAC

Rev.A.1.0

DESCRIPTION:

The T3050H-8E 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, T3050H-8E provides a very high switching capability up to junction temperatures of 150°C. Package TO-263 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)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current (T_C 0 117)	$I_{T(RMS)}$	30	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	270	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		297	

I^2t value for fus75.2 T Tf 12 0 0 12 231.e f 49f 4 T Tf 12 12 231.e f 49f 4 T Tf 12 0 231.e f 49f 4 T

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.8)	V_{pp}	1.2	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol Test Cond[illegible]

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

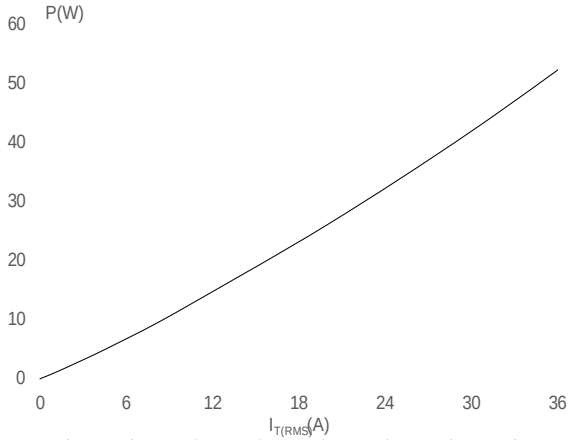


FIG.2: RMS on-state current versus case temperature

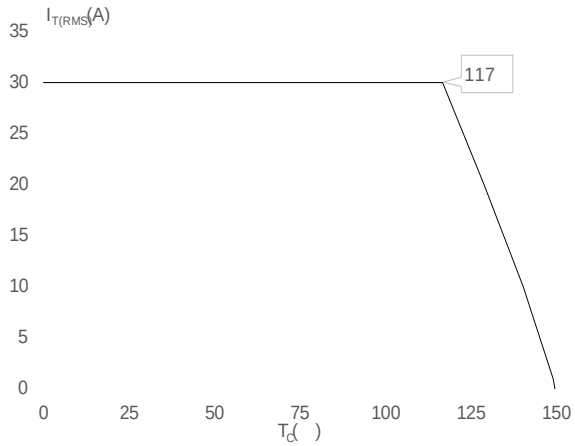
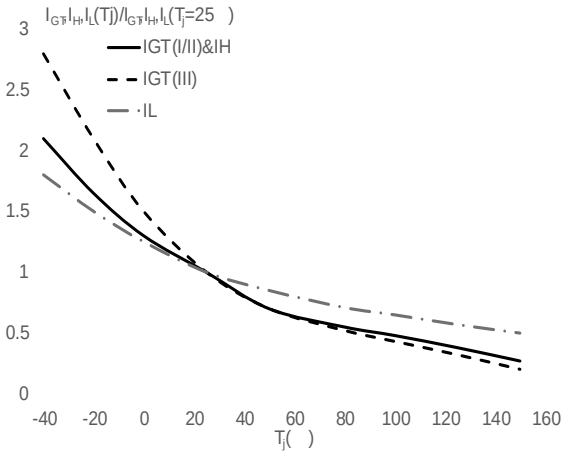


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4,copper

W K L F N Q H V V P I X O O F \ F O H

FIG.4: Surge peak on-state current versus number of cycles

FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature



ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
T3050H-8E	800	50	TO-263	50	Tube
T3050H-8E-TR263	T				

DELIVERY MODE



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