T3050H-6B-US 30A TRIAC

Rev.C-1

The T3050H-6B-US triac is suitable for general purpose AC
switching. It can be us Tc TJ 0 e 26 (pur)7 d a ( )10 an10 (2Ous TN(t)2/us TOus TF)5 TFener tt s

Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	1.2	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D =12V R_L =33Ω	- -	MAX.	50	mA
V_{GT}		- -	MAX.	1.3	V
V_{GD}	V_D =V_{DRM} T_j =150 R_L =3.3KΩ	- -	MIN.	0.15	V
I_L	I_G =1.2I_{GT}	-	MAX.	80	mA
				90	
I_H	I_T =500mA		MAX.	60	mA
dV/dt	V_D=400V Gate Open T_j =150		MIN.	2200	V/μs
(dI/dt)c	(dV/dt)c=20V/μs, T_j=150		MIN.	30	A/ms
t_{on}	I_G=80mA I_A=400mA I_R=40mA T_j=25		TYP.	15	μs
t_{off}				100	

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM} =42A t_p=380μs	T_j=25	1.5	V
V_{TO}	Threshold voltage	T_j=150	0.7	V
R_D	Dynamic resistance	T_j=150	16	mΩ
I_{DRM}	V_D =V_{DRM} V_R =V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=150	5	mA

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	0.75	/W
$R_{th(j-a)}$	junction to ambient (AC)	60	/W

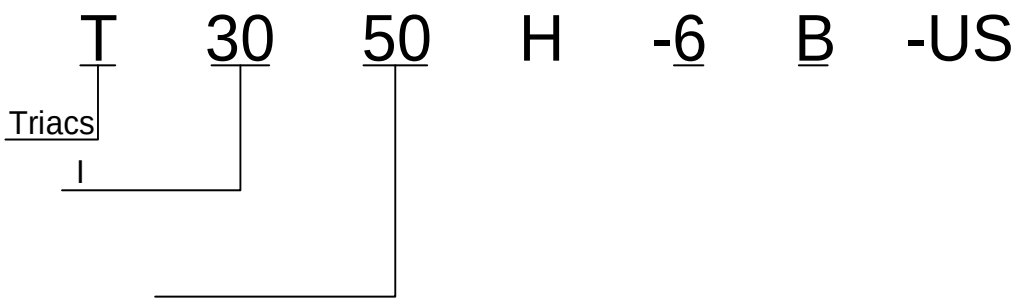

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Triacs
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FIG.1 Maximum power dissipation versus RMS on-state current

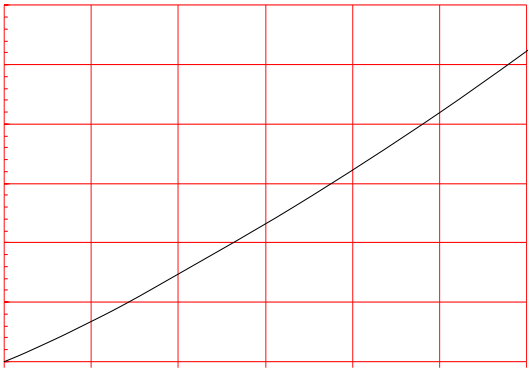


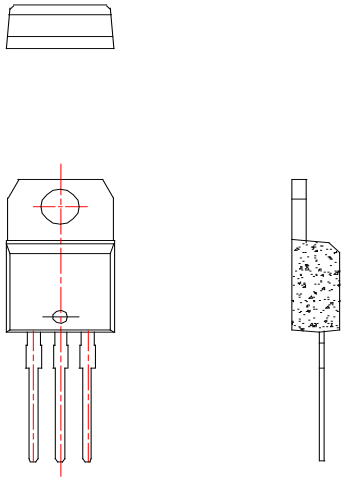
FIG.2: RMS on-state current versus case temperature

T3050H-6B-US **JieJie M**

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		H- I- J			
T3050H-6B-US	**600**	**50**	**TO-220B**	**50**	**Tube**

Document Revision History

Date	Revision	Changes
May.15, 2023	C-1	Last updated



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