T3050H-6B-US 30A TRIAC

Rev.C-1

U S
The T3050H-6B-US triac is suitable for general purpose AC
switching. It can be us Tw 7 (enerd aw 7 s)4an (us O(c)N(ng)/(c)O(c)F)5cfor cngng-s pu (ng) (an b

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

T 30 50 H -6 B -US

- T: Triacs
- 30: $I_{T(RMS)}$:30A
- 50: I_{GT1-3} 50mA
- H: High junction temperature
- -6: V_{DRM} /V_{RRM} 600V
- B: B:TO-220B
- -US: Customer code

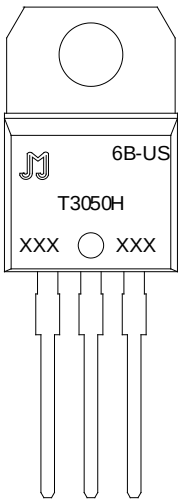

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FIG.1 Maximum power dissipation versus RMS on-state current

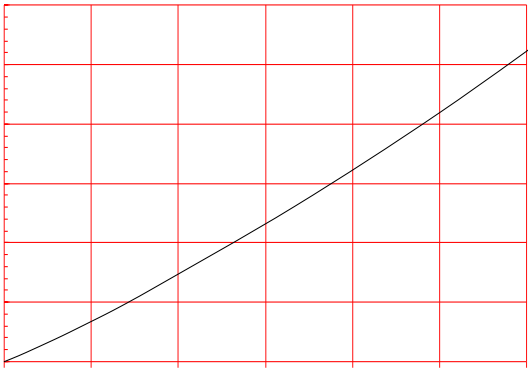


FIG.2: RMS on-state current versus case temperature

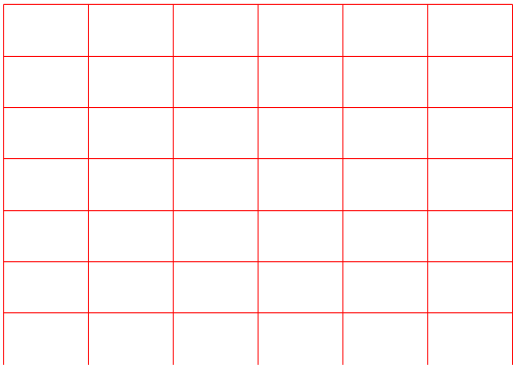
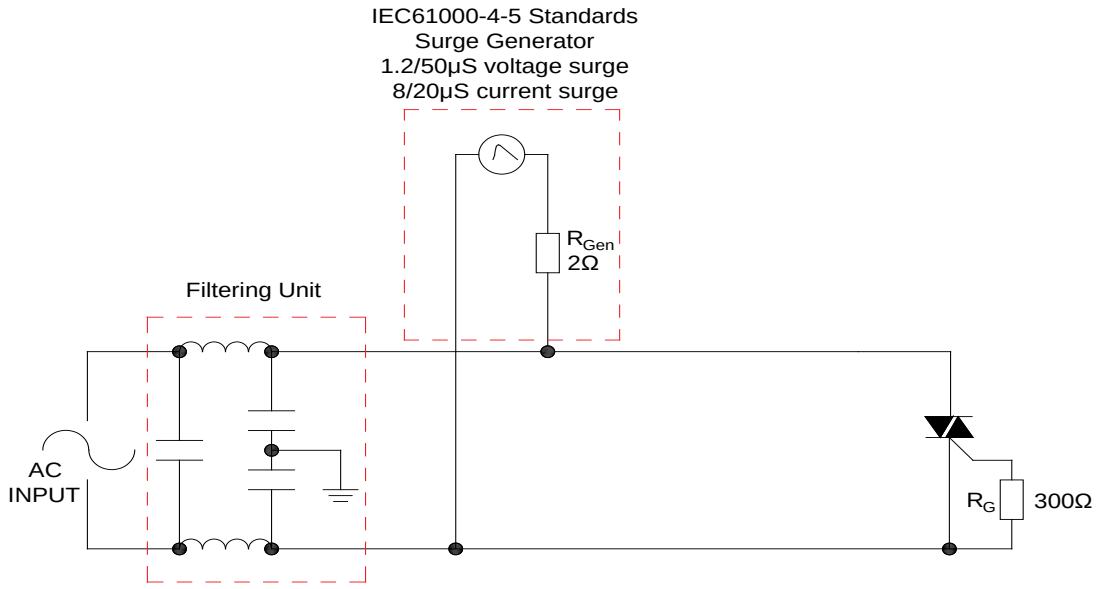


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

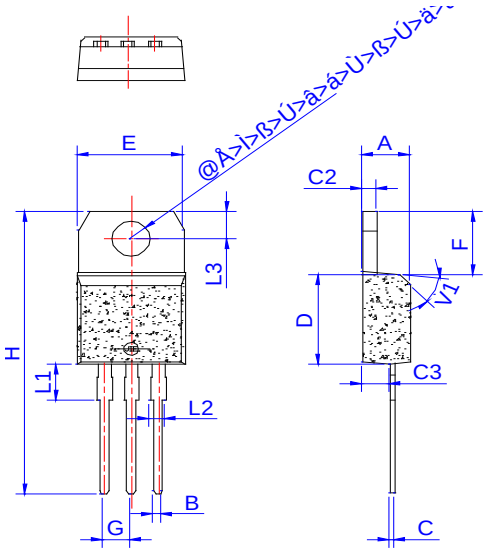


Refer to Instructions for installation of plastic-sealed in-line power devices released by JieJie

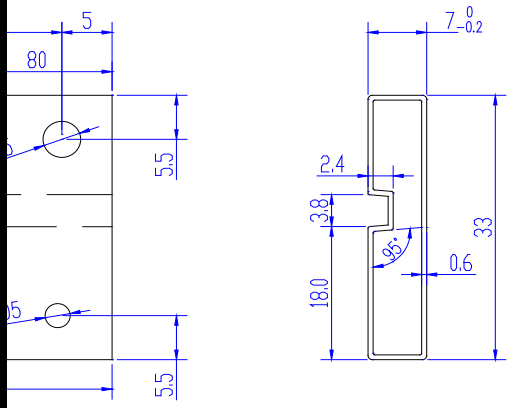
Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		H- I- J			
T3050H-6B-US	**600**	**50**	**TO-220B**	**50**	**Tube**

Document Revision History

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



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.60	0.173		0.181
B	0.61		0.88	0.024		0.035
C	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.60		10.4	0.378		0.409
F	6.20		6.60	0.244		0.260
G	2.40		2.70	0.094		0.106
H	28.0		29.8	1.102		1.173
L1	3.50		4.10	0.138		0.161
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
V1		45°			45°	



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