



DESCRIPTION:

12A TRIAC

12A TRIAC

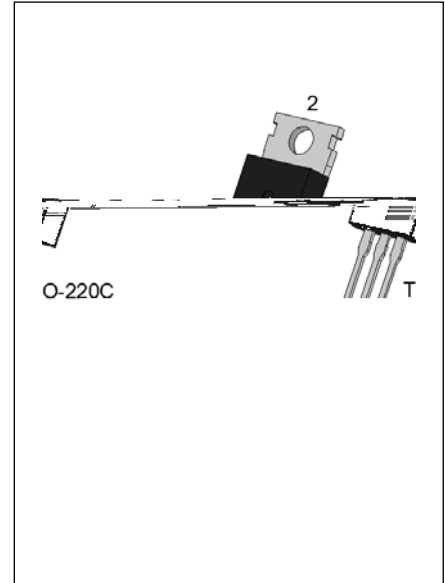
12A TRIAC

12A TRIAC

12A TRIAC

12A TRIAC

12A TRIAC



MAIN FEATURES

12A TRIAC	12A TRIAC	12A TRIAC
I_{RM}	2	A
V_{RM} V_{RM}	60	V
I_G / / /	2 2 2 0	A

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage Temperature	T_S	-40 ~ 100	°C
Junction Temperature	T_j	-40 ~ 125	°C
Reverse Voltage (non-conducting)	V_{RM}	60	V
Forward Voltage (conducting)	V_{FM}	60	V
Forward Current (continuous)	I_{RM}	2	A
Forward Current (peak)	I_{FM}	9	A
Forward Current (peak)		10	
Forward Current Squared Time	I^2t	8	A ² s
Forward Current Surge (G2 x I_G, I_T)	I_{SM}	0	A/μs
		0	
Forward Current Surge (peak)	I_{SM}	4	A
Power Dissipation (continuous)	P_C	0.5	W
Power Dissipation (peak)	P_{CM}	0	W
Peak Voltage (jitter)	V_p	1	kV

ELECTRICAL CHARACTERISTICS

Symbol	Test Condition	Quadrant	Value	Unit
I_G	$V_D = 0$ $R_L = 3k$	- -	2	A
			0	
V_G		A	1	V
V_D	$V_D = 5V$ $R_L = 3k$ $T_j = 25^\circ C$	A	0	V
I_L	$I_G = 2I_G$	- -	0	A
			0	
I_H	$I_T = 5mA$		0	A
τ	$V_D = 0$ $R_L = 3k$ $T_j = 25^\circ C$		0	V/ μs
τ	$V_D = 5V$ $R_L = 3k$ $T_j = 25^\circ C$		8	V/ μs
t_b	$I_G = 8mA$ $I_A = 4mA$ $I_R = 4mA$ $T_j = 25^\circ C$		5	μs

JST138C-600F

FIG.1: θ_{JA}

0.1

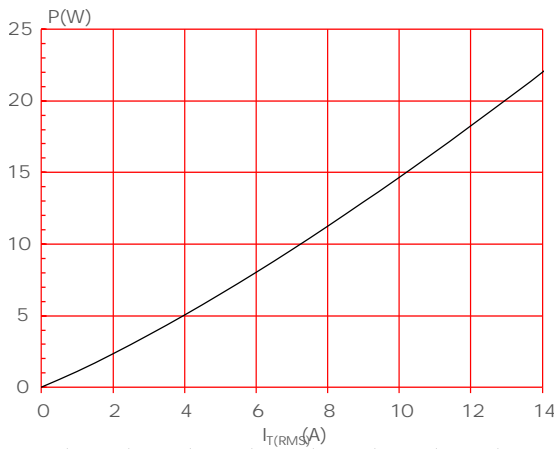


FIG.2: θ_{JC}

0.1

0.1

