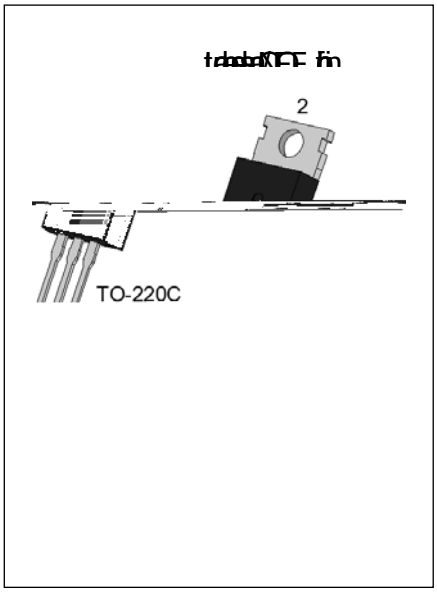
JST138C-600F 12A TRIAC Rev.A.1.1

DESCRIPTION:



MAIN FEATURES

$I_{T(RMS)}$	12	A
V_{DRM} / V_{RRM}	600	V
I_{GT} / / /	25/25/25/70	mA

ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Value	Unit
		T_{stg}	-40-150	
		T_j	-40-125	
		V_{DRM}	600	V
		V_{RRM}	600	V
		$I_{T(RMS)}$	12	A
		I_{TSM}	95	A
			105	
I^2t		I^2t	45	A^2s
	-	dI/dt	100	A/μs
	-		70	
		I_{GM}	4	A
		$P_{G(AV)}$	0	W
		P_{GM}	10	W
		V_{isol}	1	kV

ELECTRICAL CHARACTERISTICS (Tj=25℃ unless otherwise noted)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	- -	MAX	25	mA
				70	
V_{GT}		ALL	MAX	1	V
V_{GD}	V_D=V_{DRM} Tj=125℃ R_L=3.3kΩ	ALL	MIN	0	V
I_L	I_G=1.2I_{GT}	- -	MAX	40	mA
				90	
I_H	I_T=500mA		MAX	40	mA
dV/dt	V_D=400V gate open Tj=125℃		MIN	250	V/μs
$(dV/dt)c$	$(dI/dt)c$=5A/ms Tj=110℃		MIN	8	V/μs
t_{gt}	I_G=80mA I_A=400mA I_R=40mA Tj=25℃		TYP	5	μs

JST138C-600F

FIG.1:

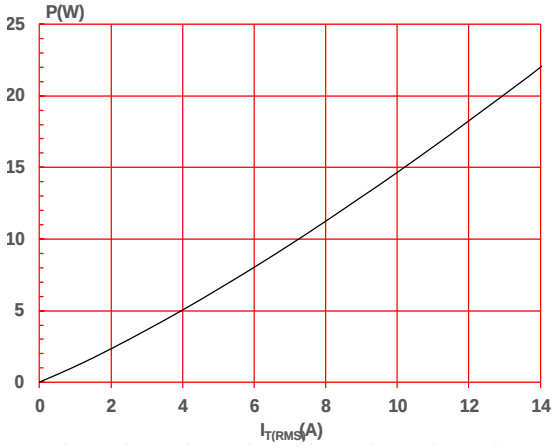


FIG.2:

FG -61000-4-5 7

