JST136F-800D 4A TRIAC

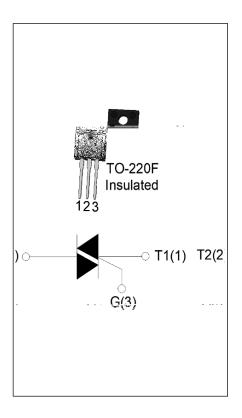
Rev.A.1.0

DESCRIPTION:

The JST136F-800D 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. By using an external plastic package, JST136F-800D provides a rated insulation voltage of 2000 VRMS, complying with UL standards (File ref: E252906). Package TO-220F is RoHS compliant.

MAIN FEATURES

Symbol	Value	Unit
I _{T(RMS)}	4	А
V _{DRM} /V _{RRM}	800	V
I _{GT} / / /	5/5/5/10	mA



ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit	
Storage junction temperature range	T _{stg}	-40-150		
Operating junction temperature range	Tj	-40-125		
Repetitive peak off-state voltage (T _j =25)	VDRM	800	V	
Repetitive peak reverse voltage (T _j =25)	VRRM	800	V	
RMS on-state current (Tc 86)	I _{T(RMS)}	4	Α	
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)	I	35		
Non repetitive surge peak on-state current (full cycle , t_p =16.6ms , T_j =25)	Ттѕм	38.5	A	
I ² t value for fusing (t _p =10ms , T _j =25)	l ² t	6.1	A ² s	
Critical rate of rise of on-state current	- dl/dt	50	Λ/110	
(I _G =2 I _{GT} , f=100Hz , T _j =125)	- di/di	40	A/µs	
Peak gate current (t _p =20µs , T _j =125)	I _{GM}	2	Α	
Average gate power dissipation (T _j =125)	P _{G(AV)}	0.5	W	

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P _{GM}	5	W
V_{pp}	3.5	kV
		V 0.5

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant		Value	Unit
I _{GT}			MAX.	5	mΛ
IGI	V _D =12V R _L =33		IVIAA.	10	mA
V _G T		ALL	MAX.	1	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3K	ALL	MIN.	0.2	V
I.	1 4 01	-	MAX.	15	A
l _L	Ig=1.2IgT	-	IVIAA.	25	mA
Ін	I _T =100mA		MAX.	15	mA
dV/dt	V _D =540V Gate Open T _j =110		MIN.	100	V/µs
(dV/dt)c	(dl/dt)c=1.8A/ms, T _j =110		MIN.	2.5	V/µs
ton	I _G =20mA I _A =200mA I _F	≈=20mA	TYP.	1	
t _{off}	T _j =25		ITF.	12	μs

STATIC CHARACTERISTICS

Symbol	Parameter	Value(MAX.)	Unit	
Cymbol	i didilictoi	varac(IIIAX.)	Oilit	l



ORDERING INFORMATION

J ST 136 F -800 D

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

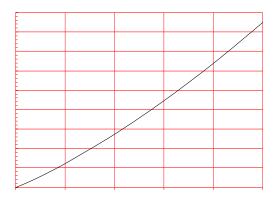


FIG.3: Surge peak on-state current versus number of cycles

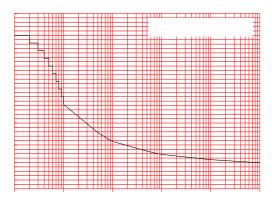


FIG.2: RMS on-state current versus case temperature

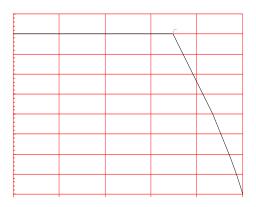


FIG.4: On-state characteristics

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ORDERING INFORMATION

	Voltage	IGT(m	nA)		Base	Delivery
Order code	V _{DRM} /V _{RRM} (V)			Package qty. (pcs)	Package qty. mode	
JST136F-800D	800	5	10	TO-220F(Ins)	50	Tube

Document Revision History

Date	Davidalan	Change	
Date	RAVISION	L.nannes	

PACKAGE MECHANICAL DATA





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