JST136Q-800D 4A TRIAC

Rev. A.1.0

DESCRIPTION

The JST136Q-800D triac is suitable for general purpose AC switching that 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. From T2 terminal to external heatsink. Package TO-126 is RoHS compliant.

ABSOLUTE MAXIMUM RATINGS

ABBREVIATIONS AND KEY PARAMETERS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40~150	
Operating junction temperature range	T_j	-40~125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current ($T_C \leq 83$)	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle, t_p=20ms, T_j=25)	I_{TSM}	35	A
Non repetitive surge peak on-state current (full cycle, t_p=16.6ms, T_j=25)		38.5	
I^2t value for fusing (t_p=10ms, T_j=25)	I^2t	6.1	A^2s
Critical rate of rise of on-state current (I_G=2×I_{GT}, f=100Hz, T_j=125)		-	

ELECTRICAL CHARACTERISTICS

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	- -	MAX.	5	mA
				10	
V_{GT}		ALL	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=125℃ R_L=3.3kΩ	ALL	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	-	MAX.	15	mA
		-		25	
I_H	I_T=100mA		MAX.	15	mA
dV/dt	V_D=540V Gate Open T_j=110℃		MIN.	100	V/μs
(dV/dt)c	(dI/dt)c=1.8 A/ms, T_j=110℃		MIN.	2.5	

[redacted]

FG.1 : Maximum power dissipation versus RMS on-state current

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

Ordering Information

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT (mA)		Package	Base qty. (pcs)	Delivery mode
		- -				
JST136Q-800D	800	5	10	TO-126	500	Bulk Pack

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated

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