JST80IS-1200BW 80A TRIAC

Rev.A.1.1

The JST80IS-1200BW 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. JST80IS-1200BW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST80IS-1200BW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package ITO-247 is RoHS compliant.

Symbol	Value	Unit
$I_{T(RMS)}$	80	A
V_{DRM} /V_{RRM}	1200	

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}	1200	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	1200	V
RMS on-state current ($T_C \leq$ 90)	$I_{T(RMS)}$	80	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)	I_{TSM}	800	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)		880	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t	3200	A^2s
Critical rate of rise of on-state current (I_G=2 × I_{GT} , f=100Hz , T_j=125)	dI/dt	100	A/εs
Peak gate current (t_p=20εs , T_j=125)	I_{GM}	10	A

Average gate power dissipation (T_j=125)	$P_{G(AV)}$	0.5	W
Peak gate power	P_{GM}	25	W
Peak pulse voltage (T_j=25			

FIG.7 Test circuit for inductive and resistivs tEC -

Order code	Voltage V_{DRM}/V_{RRM}(V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST80IS-1200BW	1200	50	ITO-247(Ins)	25	Tube

Document Revision History

Date	Revision	Changes

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