



JST139D-600E 16A TRIAC

Rev.A.1.0

DESCRIPTION:

The JST139D-600E 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. From T2 terminals to external heatsink. Package TO-262 is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

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 ($T_j=25^\circ\text{C}$)	V_{DRM}	600	V
Peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	600	V
Peak forward surge current	$I_{T(RMS)}$	16	A
Maximum average current	I_{TSM}	140	A
Maximum average current		154	
Maximum surge power ($T_j=25^\circ\text{C}$)	I^2t	98	A^2s

ORDERING INFORMATION

J	ST	139	D	-600	E
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}:16A$	D:TO-262	600:V _{DRM} /V _{RRM} 600V	E:I _{GT1-3} 10mA I _{GT4} 25mA

MARKING

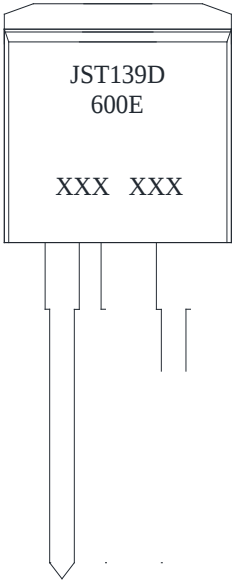


FIG.1: Maximum power dissipation versus RMS on-state current

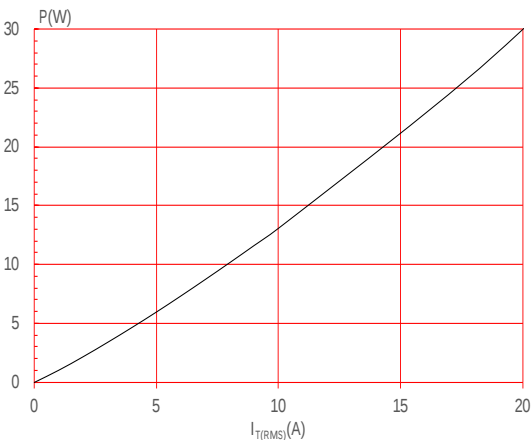


FIG.2: RMS on-state current versus case temperature

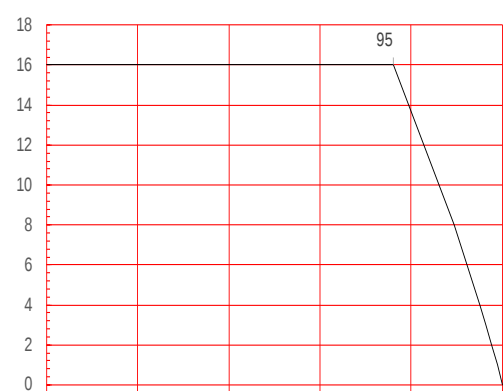


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

