



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.

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33	- -	MAX.	10	mA
				25	
V _{GT}		ALL	MAX.	1	V
V _{GD}	V _D =V _{DRM} T _j =125 R _L =3.3K	ALL	MIN.	0.2	V
I _L	I _G =1.2I _{GT}	- -	MAX.	25	mA
				35	
I _H	I _T =500mA		MAX.	25	mA
dV/dt	V _D =400V Gate Open T _j =125		MIN.	150	V s
(dV/dt) _c	(dI/dt) _c =7.2A/ms, T _j =110		MIN.	5	9 V
t _{on}	I _G =40mA I _A =200mA I _R =20mA T _j =25		TYP.	3	s
t _{off}				50	

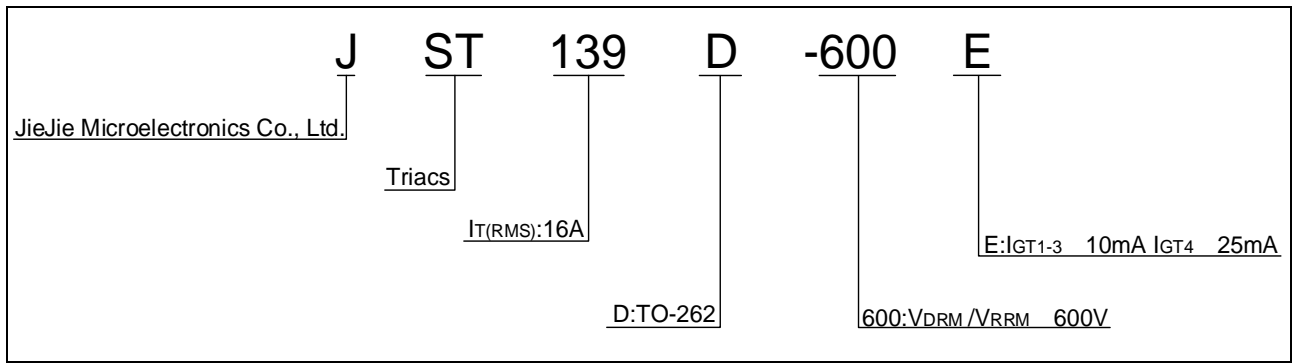
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V _{TM}	I _{TM} =15A t _p =380 s	T _j =25	1.5	V
V _{TO}	Threshold voltage	T _j =125	0.75	V
R _D	Dynamic resistance	T _j =125	27	P
I _{DRM}	V _D =V _{DRM} V _R =V _{RDM}	T _j =25	5	A
I _{RDM}		T _j =125	0.4	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
R _{th(j-c)}	junction to case (AC)	1.3	/W
R _{th(j-a)}	junction to ambient (AC)	60	/W

ORDERING INFORMATION



MARKING

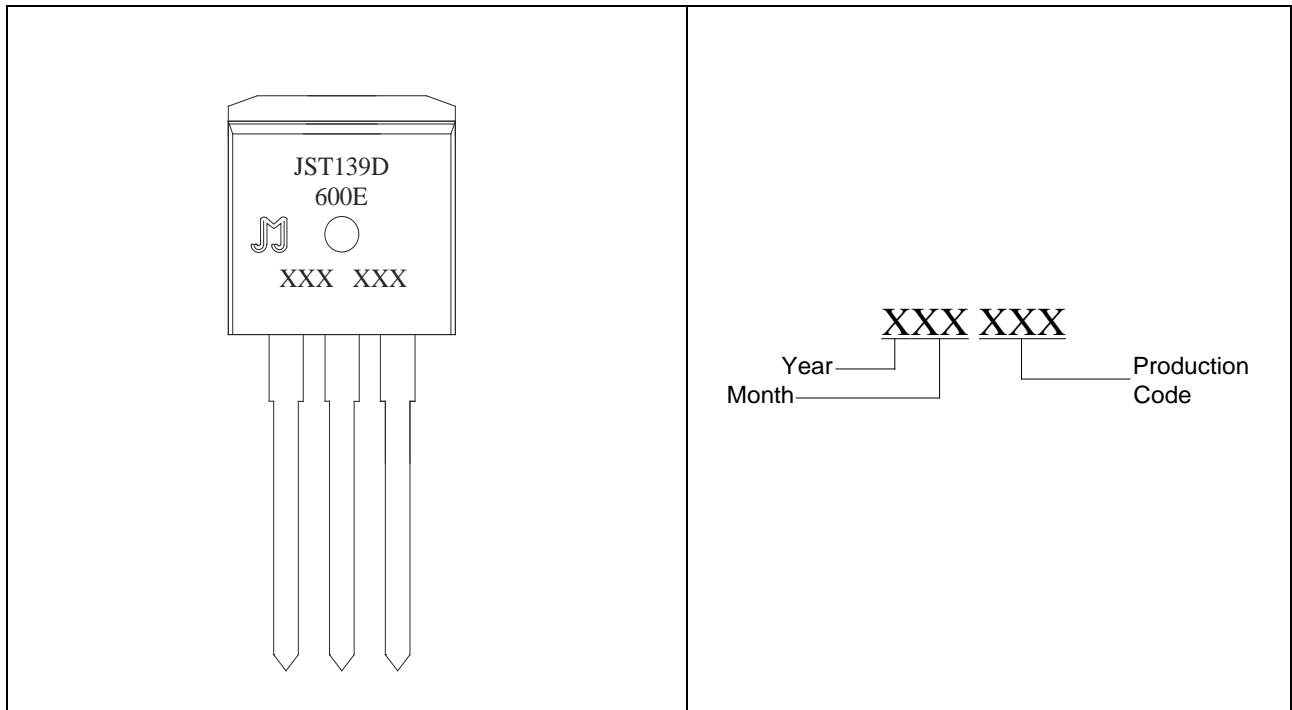


FIG.1 Maximum power dissipation versus RMS on-state current
FIG.2: RMS on-state current versus case temperature



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

ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
JST139D-600E	600	10	25	TO-262	50	Tube

Document Revision History

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

PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A						
B						
C						
D						
E						
F						
G						
H						
J						
K	Typ.3.733.2 5 -1.861 Td (Jd (1n29.1143 688d (5D)-1)-7.4					

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