

JIEJIE MICROELECTRONICS CO.,Ltd

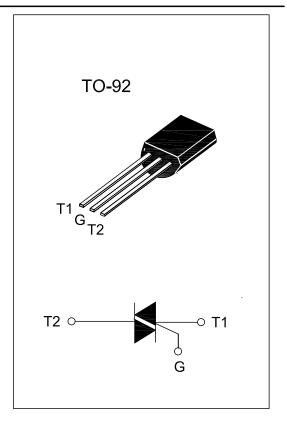
JST97 Series 0.6A TRAICs

DESCRIPTION:

This device is suitable for low power AC switching application, phase control application such as fan speed and temperature modulation control, lighting control and static switching relay.

MAIN FEATURES

Symbol	Value	Unit
lt(AV)	0.6	Α
VDRM/VRRM	400 and 600	V
Vтм	≤1.9	V



ABSOLUTE MAXIMUM RATINGS

Parameter			Value	Unit
Storage junction temperature range			Tstg - 40 to +150	
Operrating junction temperature range		Tj	- 40 to +110	°C
Repetitive Peak Off-state Voltage	Tj=25°C	VDRM	400 and 600	V
Repetitive Peak Reverse Voltage	Tj=25°C	VRRM 400 and 60		V
Non repetitive Surge Peak Off-state Voltage	Tj=25°C	VDSM	500 and 700	V
Non repetitive Peak Reverse Voltage	Tj=25°C	VRSM	500 and 700	٧
RMS on-state current (full sine wave)	Tc=50°C	IT(RMS)	0.6	Α
Non repetitive surge peak on-state current	tp=10ms		7	Α
(One Full Cycle,Sine Wave,Tc=110°C)	tp=8.3ms	ITSM	8	А
I²t Value for fusing	tp=10ms	l²t	0.245	A²s
Peak gate current tp≤2us,Tj=80°C			1 1	
Average gate power dissipation tp≤ 10mS Tj=80°C			0.1	W
Peak gate power dissipation tp≤ 10mS Tj=80°C		Рдм	5	W

ELECTRICAL CHARACTERISTICS(Tj=25 ℃ unless otherwise specified)

Symbol	Test Condition	Quadrant		Ratings	Unit
lgт	VD=12V RL=33Ω	I-II-III IV	MAX.	5 7	mA
VGT	VD-12V KL-3312	ALL	MAX.	2.0	V
VGD	VD=VDRM RL=3.3KΩ Tj =110℃	ALL	MIN.	0.2	V
Ін	IT =200mA		MAX.	10	mA
dV/dt	VD=67%VDRM gate open Tj=110℃		MIN.	10	V/µs
(dV/dt)c	(dl/dt)c=0.3A/ms Tj=110℃		MIN.	1.5	V/µs

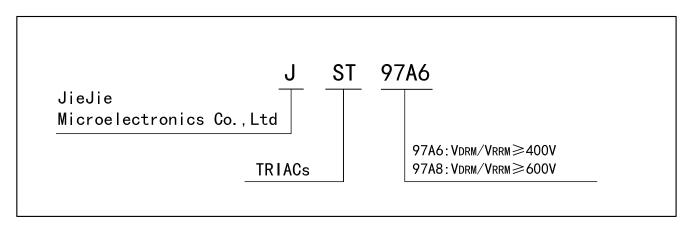
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
Vтм	Iтм=0.85A,tp=380µs	Tj=25℃	1.9	V
IDRM IRRM	VD=VDRM VR=VRRM	Tj=25℃	10	μΑ
		Tj=110℃	100	μΑ

THERMAL RESISTANCES

Symbol	Parameter		Value	Unit
Rth(J-C)	Junction to Case(AC)	TO-92	75	°C/W

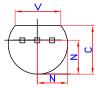
ORDERING INFORMATION



Dimensions

PACKAGE MECHANICAL DATA

TO-92(TO-226AA)







	Ref.	Millimeters		/lillimeters Inches	
		Min.	Max.	Min.	Max.
	Α	4.45	5.2	0.175	0.205
	В	4.32	5.33	0.170	0.210
SECTION X-X	С	3.18	4.19	0.125	0.165
	D	0.407	0.533	0.016	0.021
	G	1.15	1.39	0.045	0.055
	Н	2.42	2.66	0.095	0.105
	J	0.39	0.50	0.015	0.020
	K	12.70	-	0.500	-
	N	2.04	2.66	0.080	0.105
	Р	-	2.54	-	0.100
	V	3.43	-	0.135	-

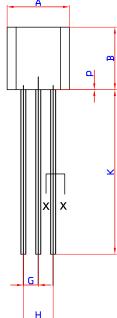


FIG.1: Maximum power dissipation versus average on-state current.

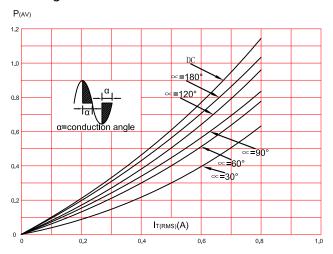


FIG.3: On-state characteristics (maximum values)

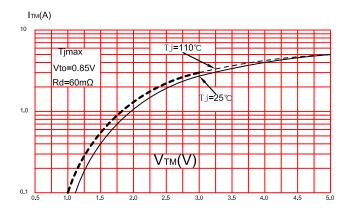


FIG.5: Relative variation of gate trigger current, holding current and latching current versus junction temperature(typical values).

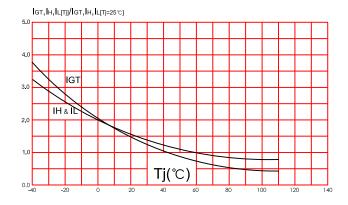


FIG.2: RMS on-state current versus case temperature.

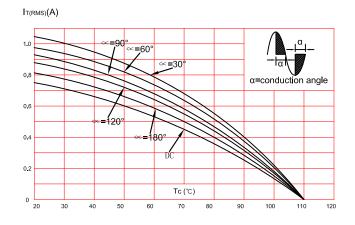


FIG.4: Surge peak on-state current versus number of cycles.

