JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

TO-92 Plastic-Encapsulate Thyristors

MAC97A6,A8   TRIAC

TO-92

1. ANODE

2. GATE

3. ANODE

MAIN FEATURES

Symbol		value	unit
$I_{T(RMS)}$		1	A
V_{DRM}/V_{RRM}	MAC97A6	400	V
	MAC97A8	600	V
I_{TSM}		8	A
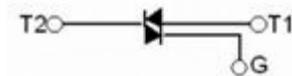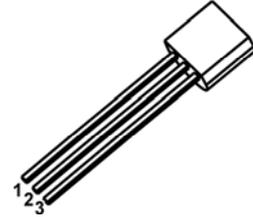
DESCRIPTION

Logic level sensitive gate triac intended to be interfaced directly to microcontrollers, logic integrated circuits and other low power gate trigger circuits.

FEATURES

● Blocking voltage to 400 V (MAC97A6)

● RMS on-state current to 0.6 A

● General purpose bidirectional switching

APPLICATIONS

● General purpose bidirectional switching

● Phase control applications

● Solid state relays

Limiting values

Symbol	Parameter	Conditions	Value	Unit
V_{DRM} /V_{RRM}	repetitive peak off-state voltage MAC97A6 MAC97A8	T_j= 25 to125 ℃ T_j= 25 to125 ℃	400 600	V
I_{GM}	gate current(peak value)	t = 2μs max	1	A
V_{GM}	gate voltage(peak value)	t = 2μs max	5	V
P_{GM}	gate power(peak value)	t = 2μs max	5	W
T_j	Junction Temperature	-	-40 ~ 125	℃
T_{stg}	Storage Temperature	-	-40 ~ 150	℃

ELECTRICAL CHARACTERISTICS (T$_a$=25℃ unless otherwise specified)

Parameter		Symbol	Test conditions		Min	Max	Unit
Rated repetitive peak off-state/reverse voltage		V$_{DRM}$,V$_{RRM}$	I$_D$=10μA	MAC97A6	400		V
				MAC97A8	600		
Rated repetitive peak off-state current		I$_{DRM}$	V$_D$=V$_{DRM}$			10	μA
On-state voltage		V$_{TM}$	I$_T$=1A,I$_G$=50mA			1.9	V
Gate trigger current	I	I$_{GT}$	T$_2$(+), G(+)	V$_D$=12V R$_L$=100Ω		5	mA
	II		T$_2$(+), G(-)			5	mA
	III		T$_2$(-), G(-)			5	mA
	IV		T$_2$(-), G(+)			-	mA
Gate trigger voltage	I	V$_{GT}$	T$_2$(+), G(+)	V$_D$=12V R$_L$=100Ω		1.5	V
	II		T$_2$(+), G(-)			1.5	V
	III		T$_2$(-), G(-)			1.5	V
	IV		T$_2$(-), G(+)			-	V
Holding current		I$_H$	I$_T$=600mA ,I$_G$=20mA			10	mA

TO-92 Package Outline Dimensions
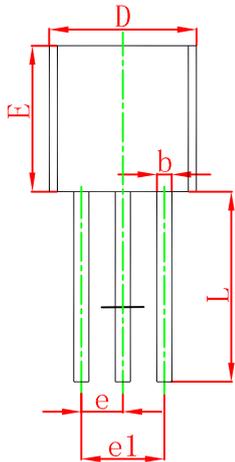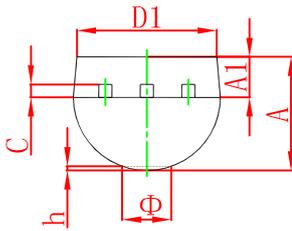
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	3.300	3.700	0.130	0.146
A1	1.100	1.400	0.043	0.055
b	0.380	0.550	0.015	0.022
c	0.360	0.510	0.014	0.020
D	4.300	4.700	0.169	0.185
D1	3.430		0.135	
E	4.300	4.700	0.169	0.185
e	1.270 TYP		0.050 TYP	
e1	2.440	2.640	0.096	0.104
L	14.100	14.500	0.555	0.571
Φ		1.600		0.063
h	0.000	0.380	0.000	0.015

TO-92 Suggested Pad Layout
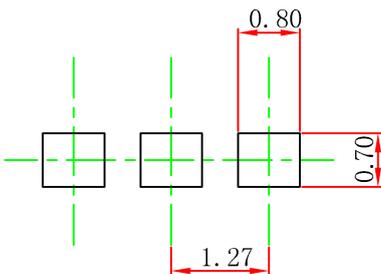
Note:
1. Controlling dimension:in millimeters.
2. General tolerance:± 0.05mm.
3. The pad layout is for reference purposes only.

TO-92 PACKAGE TAPEING DIMENSION
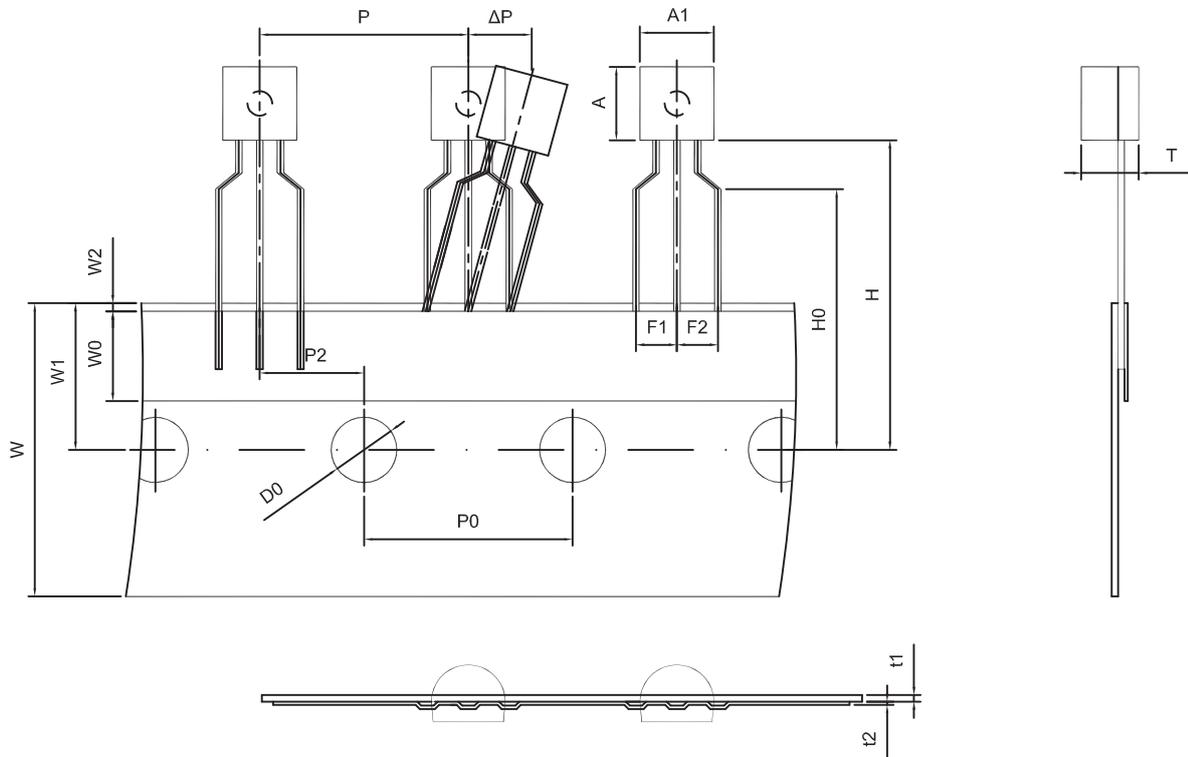
Dimiensions are in millimeter								
A1	A	T	P	P0	P2	F1	F2	W
4.5	4.5	3.5	12.7	12.7	6.35	2.5	2.5	18.0
W0	W1	W2	H	H0	D0	t1	t2	ΔP
6.0	9.0	1.0 MAX.	19.0	16.0	4.0	0.4	0.2	0
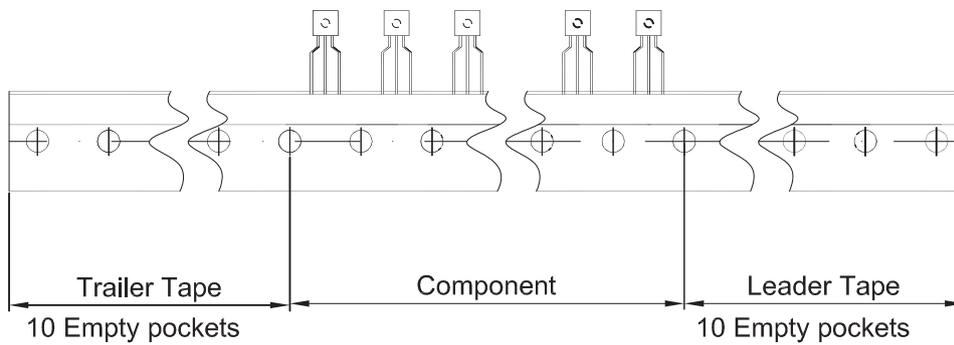
Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000 pcs	333×162×43	20,000 pcs	350×340×250

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