

## TD101X Series

LSOP4, DC Input, Photo Transistor Coupler

### De\$cri%tion

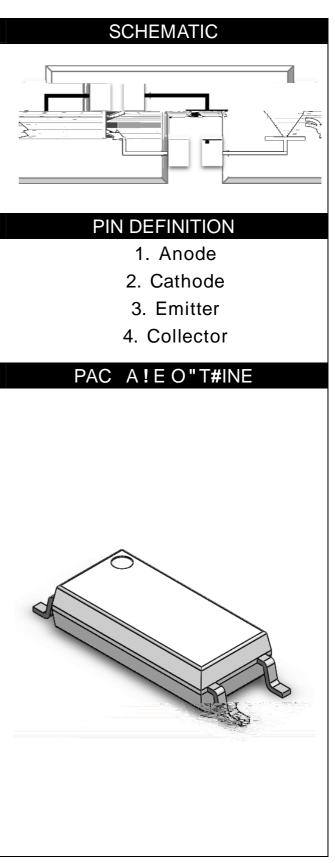
The TD101X series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a silicon planar phototransistor detector in a plastic LSO ! pac"age# \$ ith the robust coplanar double mold structure% TD101X series pro&ide the most stable isolation feature#

## Feat&re\$

' igh isolation (000 ) \* +S , T \* fle-ibility a&ailable see order information D, input with transistor output Operating temperature range . (( /, to 110 /, \* o ' S 0 \* 1A, ' , ompliance +SL class 1 \* egulatory Appro&als 2L . 2L1(33 )D1 . 14503!3.(.(6)D1077!.(8 , 9 , : G; !<!=#1% G; 77<7</pre>

## A%%lication\$

- Switch mode power supplies
- rogrammable controllers
- 'ousehold appliances
- Office e>uipment



# LSOP4, DC Input, Photo Transistor Coupler

A'SO#"TE MA(IM"M)ATIN!S											
A*A+1T1 *	S@+;OL	) AL21	2 4 A T	40T1							
A4 2T											
Borward, urrent	Ав	50	mA								
ea" Borward, urrent	Ав	1	A	1							
* e&erse ) oltage	) *	5	)								
Anput ower Dissipation	A	100	m \$								
O2T 2T											
, ollector . 1 mitter ) oltage	),10	70	)								
1 mitter . , ollector ) oltage	) 1 , 0	3	)								
, ollector , urrent	A,	(0	mA								
Output ower Dissipation	О	1(0	m \$								
, O++O4											
Total ower Dissipation	tot	?(0	m \$								
Asolation ) oltage	) iso	(000	) rms	?							
Operating Temperature	Topr	.((C110	/,								
Storage Temperature	Tstg	.((C1?(	/,								
Soldering Temperature	Tsol	?50	/,								

Note 1. 100µs pulse, 100 ! "#e\$uenc% Note 2. A& 'o# 1 ()nute, R. . \* +0 , -0.

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	E#ECT	ICA# OF	PTICA	# CHA	<b>)</b> AC	TE)	ISTICS at Ta*2+,C	
A*A+	A*A+1T1* S		+ \] 4#	T@ #	+AX#	24AT	T1ST , O4DATAO4	40T1
			•	A <b>4</b>	2T			•
Borward)	oltage	) в		1#!(	1#5	)	ABD(0mA	
* e&erse	* e&erse , urrent				10	EA	) *D5 )	
Anput , apa	Anput, apacitance			=0	?(0	рΒ	) D0% fD1 " ' F	
		·		O2T	2T			
, ollector Da	r", urrent	Å, 10			100	nA	),1D?0)%ABD0	
, ollector.	, ollector. 1 mitter		70			)		
; rea"down	; rea"down) oltage						A, DO#1mA% ABDO	
1 mitter., o	1 mitter., ollector		2					
; rea"down	) oltage	;)1,0	3	•	•	)	A1 <b>D0#1mA</b> % ABD0	
	_	T *	A4SB1	*,'A	、*Α,Τ	1 * AS	TA, S	
	TD1010		=00	-	500			
	TD101(		(0		1(0			
TD1013	TD1015		100		=00		ABD(mA%),1D()	
	TD1013		70		150			
	TD1017		1=0		?50	]		
, urrent	TD101<		?00		!00			
Transfer	TD1011	, T *	50		=00	G		
* atio	*atio TD101?		5=	-	1?(			
	TD101=		100		?00	-	A <sub>B</sub> D10mA‰), 1D()	
	TD101!		150		=?0			
	TD101?		??				ABD1mA%),1D()	
	TD101=		=!					
	TD101!		(5					
, ollector.1mitter Saturation) oltage		), 16sat8		O#1	0#=	)	ABD10mA% A, D1mA	
	Asolation * esistance		10H1?	10H1!		1	D,(00)%!0C50G *#'#	
	Bloating, apacitance			0#!	1	pВ	) D0% fD1 + ' F	
, ut.off Bre>uency		, <sup>kO</sup> . Bc .			-	),1D?)%A,D?mA		
			•	70		" ' F	*∟D100 I %.=d ;	=
* esponse Ti	me 6 * ise8	Tr		(	17	Es	),1D?)%A,D?mA	!
* esponse Time 6Ball8		Tf	l .	5	17	Es	*∟D100 I	!
Note /. ')0.1		I	1	I		I	1	1

Note +. ')0.1+

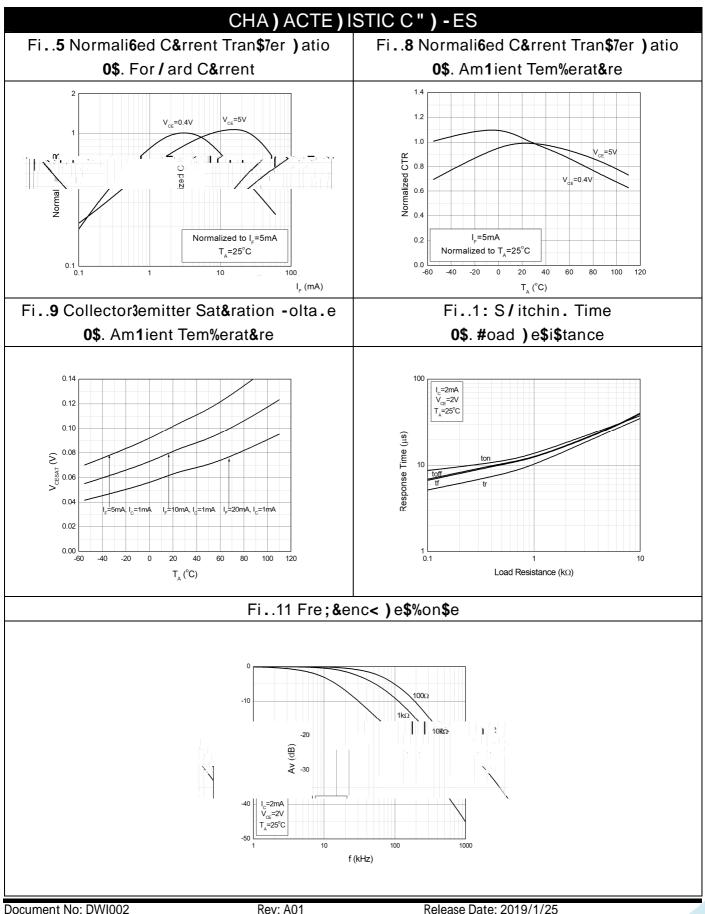
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0\$. Collector3emitter -olta.e

\$. Collector3emitt() - 2.33292(F)0.480-1



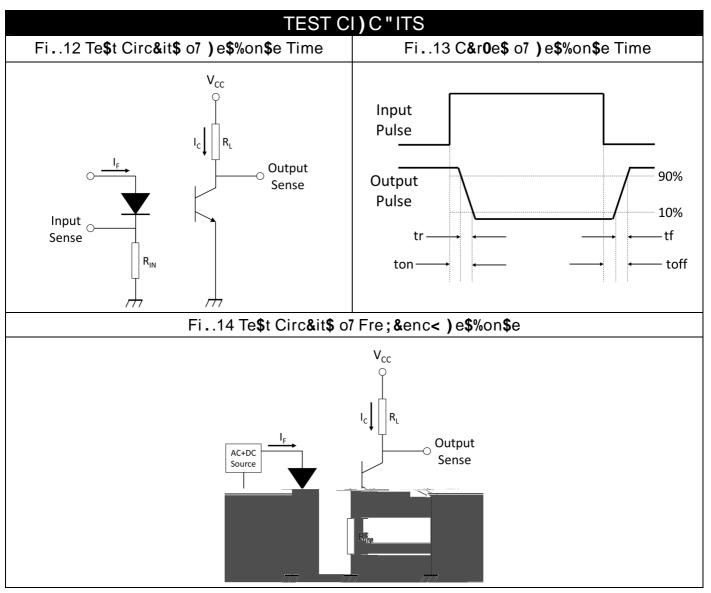
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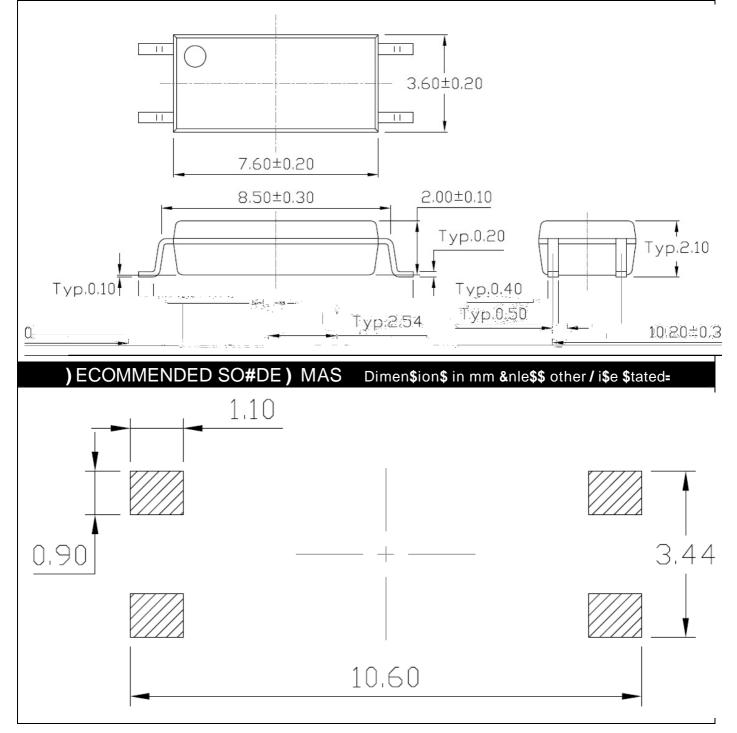




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### A ! E DIMENSIONS Dimen\$ion\$ in mm &nle\$\$ other / i\$e \$tated= PAC

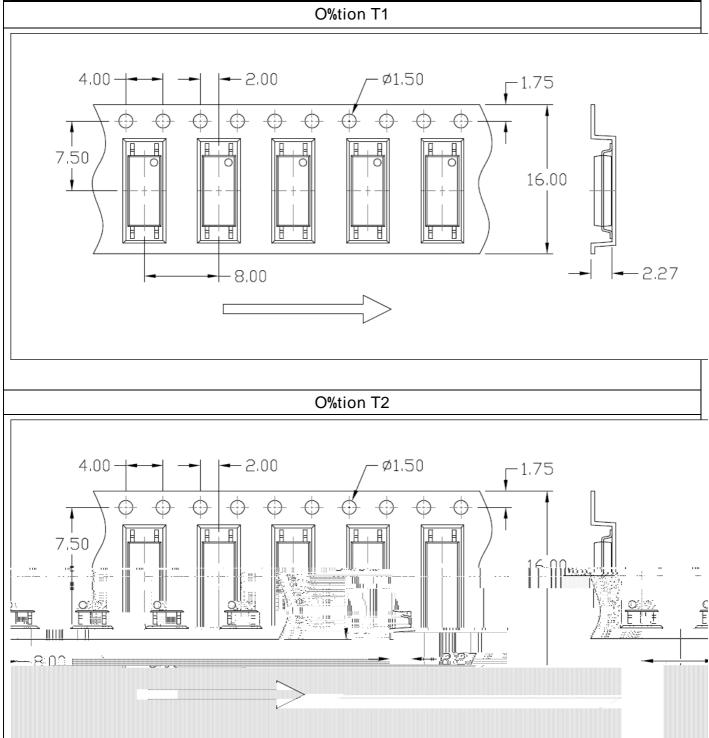




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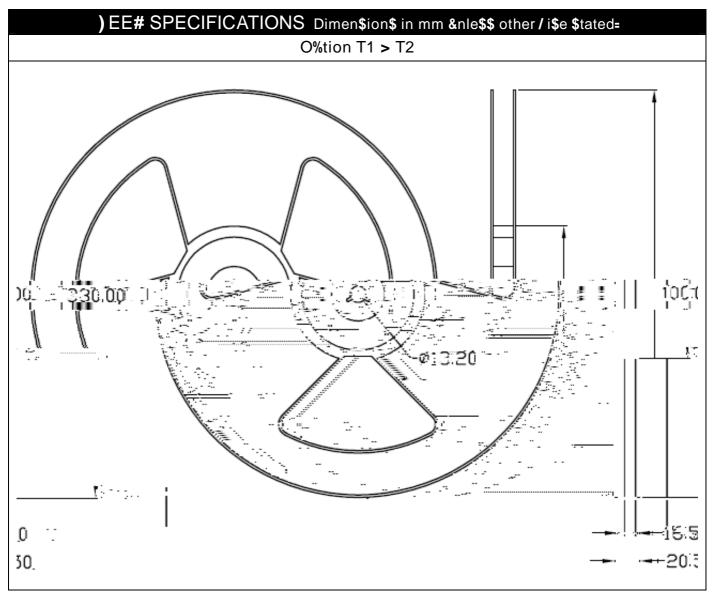
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### TAPE SPECIFICATIONS Dimen\$ion\$ in mm &nle\$\$ other / i\$e \$tated= CA) ) IE )





# LSOP4, DC Input, Photo Transistor Coupler





LSOP4, DC Input, Photo Transistor Coupler

### SPECIFICATIONS ) eel T<%e= '0(

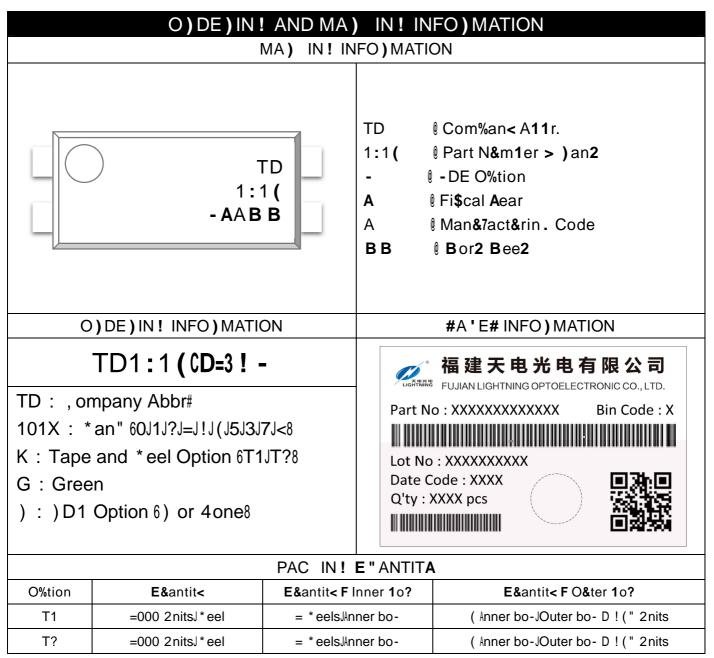
Inner 'o?

23W3 \*/-cm3/-cm3-.9cm





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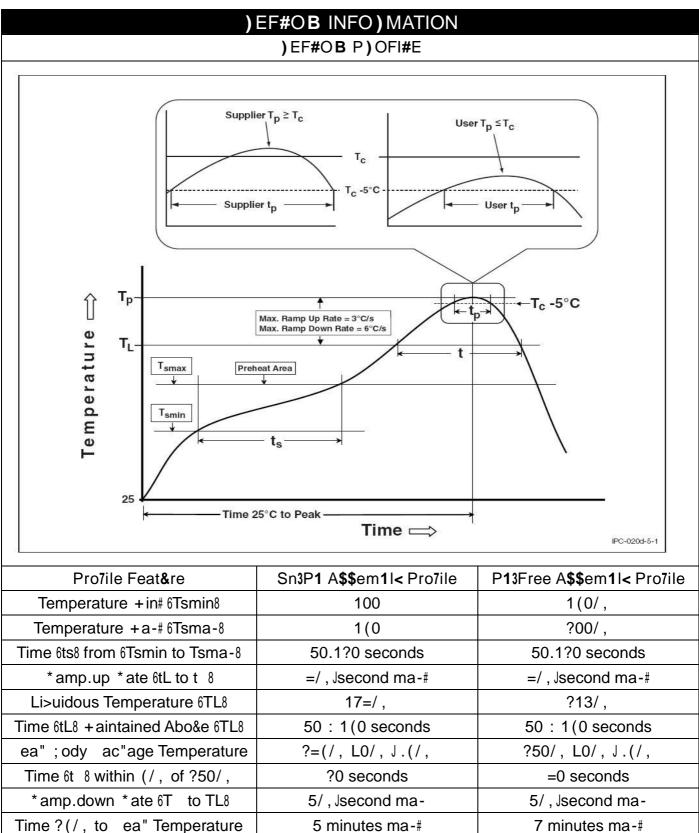


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