

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#

'igh isolation (000) \*+S

, T\* fle-ibility a&ailable see order information

D , input with transistor output  $\label{eq:continuous}$  Operating temperature range . ( ( / , to 110 / ,

\*o'S 0 \*1A, ', ompliance

+SL class 1

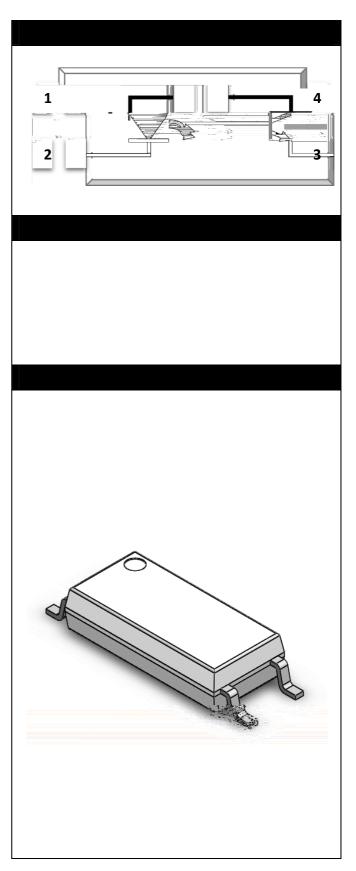
\* egulatory Appro&als

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) D1 . 14503!3.(.(6) D1077!.(8

, 9, : G; !<!=#1% G; 77<7

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





A*A+1T1*	S@+;OL	) AL21	24AT	4OT1			
A4 2T							
Borward, urrent	Aв	50	mA				
ea" Borward, urrent	Ав	1	Α	1			
* e&erse ) oltage	) *	5	)				
Anput ower Dissipation	A	100	m \$				
O2T 2T							
, ollector . 1mitter ) oltage	),10	70	)				
1 mitter . , ollector ) oltage	) 1 , 0	3	)				
, ollector , urrent	Α,	(0	mA				
Output ower Dissipation	0	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	/,				

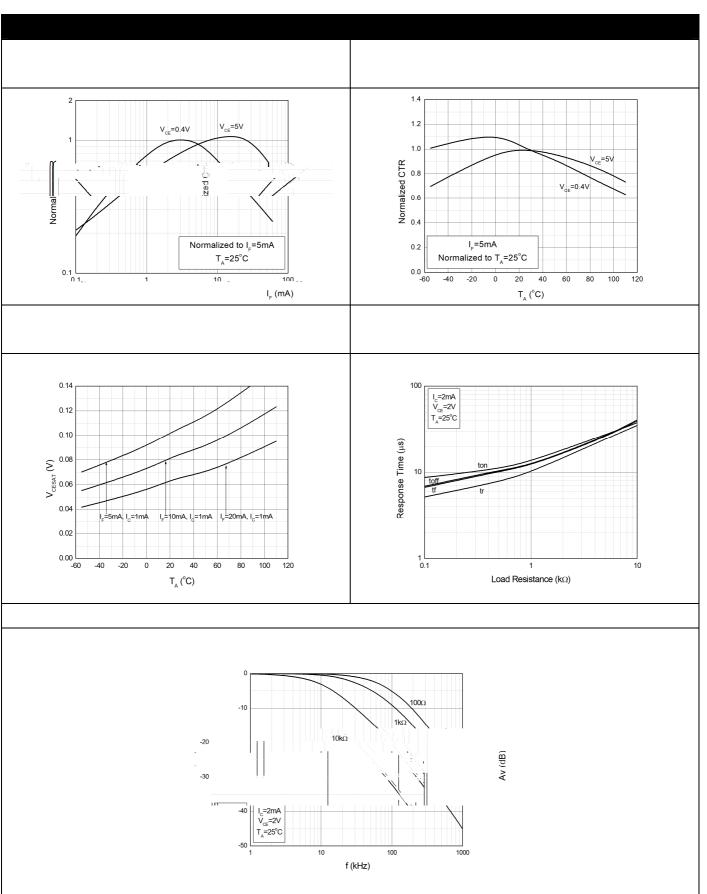


A*A+	1T1 *	S@+;OL	+ 14#	T@ #	+AX#	24AT	T1ST , O4DATAO4	40T1
A4 2T								
Borward )	) oltage	) в		1#!(	1#5	)	ABD(0mA	
* e&erse	*e&erse , urrent A*			•	10	EA	) *D5)	
Anput , apa	acitance	, in		=0	?(0	рВ	) D0% fD1 " ' F	
	O2T 2T							
, ollector Da	r", urrent	Å,10			100	nΑ	) , 1D?O) % AвDO	
, ollector. ; rea"down		;),10	70			)	A , DO#1mA% ABDO	
1 mitter. , ; rea "down		;)1,0	3			)	A1DO#1mA% ABDO	
		T*	A4SB1	* , ' A	`*A,T	1 * AS	TA,S	•
	TD1010		=00		500			
	TD101(		(0	•	1(0			
	TD1015		100	•	=00		/pD(m∧∀ ) ,D()	
	TD1013		70	•	150		ABD(mA%),1D()	
	TD1017		1=0		?50			
, urrent	TD101<		?00	•	!00			
Transfer	TD1011	, T *	50		=00	G		
* atio	TD101?		5=	•	1?(		A <sub>B</sub> D10mA%), <sub>1</sub> D()	
	TD101=		100		?00		MBDTOTTIAN ), 1D()	
	TD101!		150		=?0			
	TD101?		??					
	TD101=		=!				AвD1mA%),1D()	
	TD101!		(5					
, ollector. Saturation		) , 16sat8		O#1	0#=	)	ABD10mA% A, D1mA	
Asolation * 6	esistance	* ASO	10H1?	10H1!		I	D,(00)%!0C50G *#'#	
Bloating, apacitance		, AO		O# !	1	рВ	) D0% fD1 + ' F	
, ut.off Bre>uency		Вс		70		" ' F	) , 1D? ) % A , D?mA * LD100 I %.=d ;	=
* esponse Ti	* esponse Time 6 * ise8			(	17	Es	),1D?)%A,D?mA	!
* esponse Time 6Ball8		Tf		5	17	Es	* ∟D100 I	!

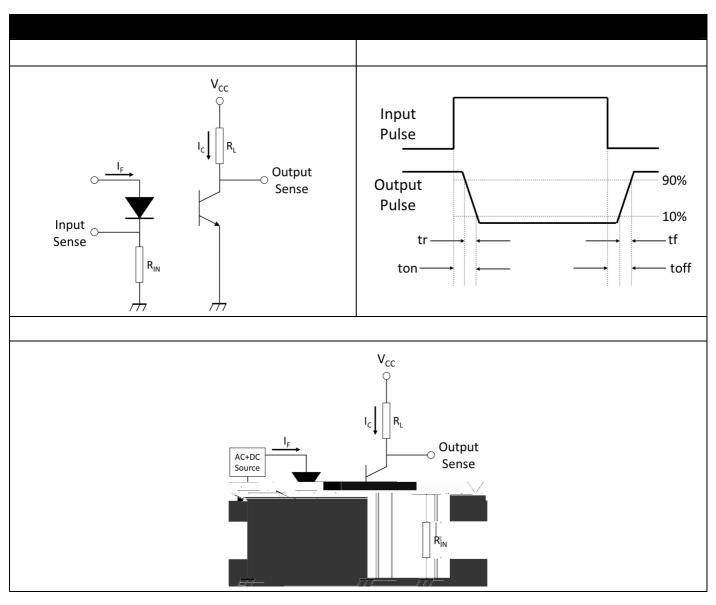




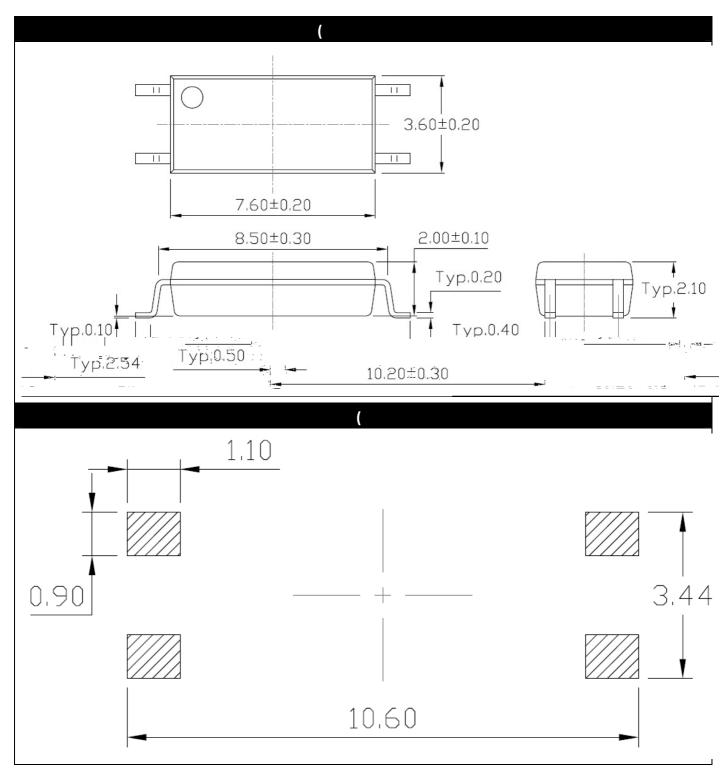




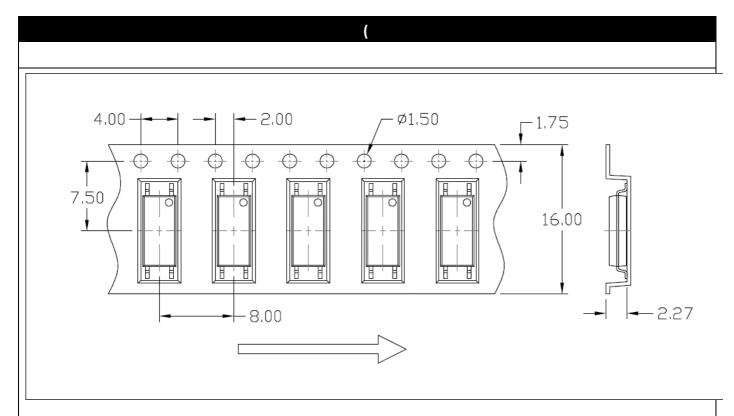


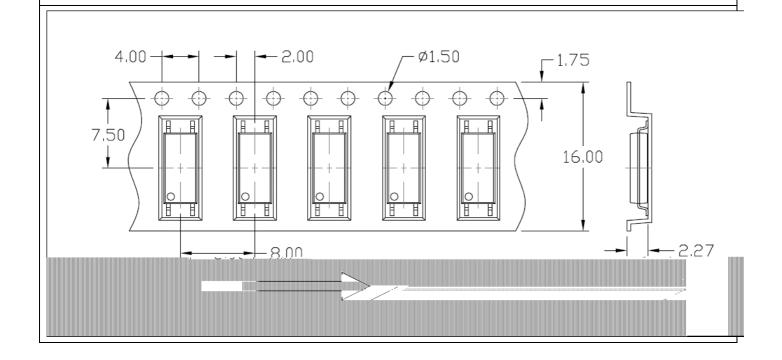




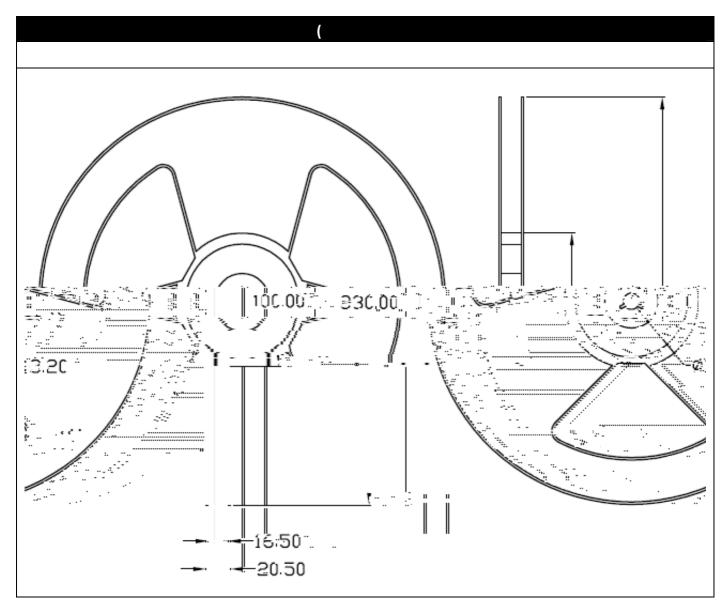
















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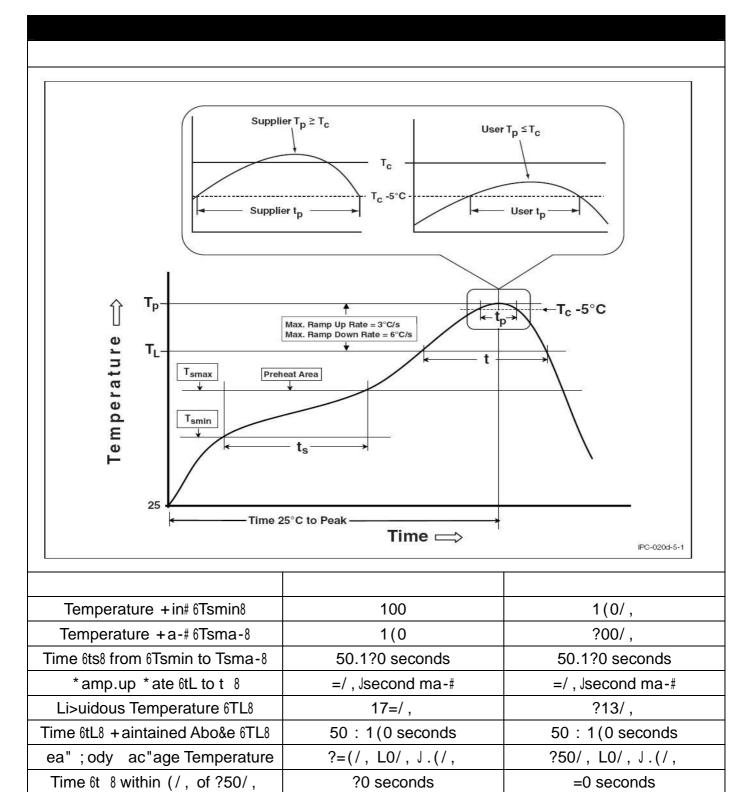




\*amp.down \*ate 6T to TL8

Time ?(/, to ea" Temperature

#### LSOP4, DC Input, Photo Transistor Coupler



5/, Jsecond ma-

5 minutes ma-#

5/, Jsecond ma-

7 minutes ma-#



LAG 'T4A4G is continually impro&ing the >uality% reliability% function and design# LAG 'T4A4G reser&es the right to ma"e changes without further notices#

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Ammerge unit%s body in solder paste is not recommended#

arameters pro&ided in datasheets may &ary in different applications and performance may &ary o&er time# All operating parameters% including typical parameters% must be &alidated in each customer application by the customer%s technical e-perts# roduct specifications do not e-pand or otherwise modify LAG ' T4A4G%s terms and conditions of purchase% including but not limited to the warranty e-pressed therein#

Discoloration might be occurred on the pac"age surface after soldering% reflow or long.time use# At neither impacts the performance nor reliability#