



# ***6N137, MPC2601, MPC2611 Series***

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## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **Description**

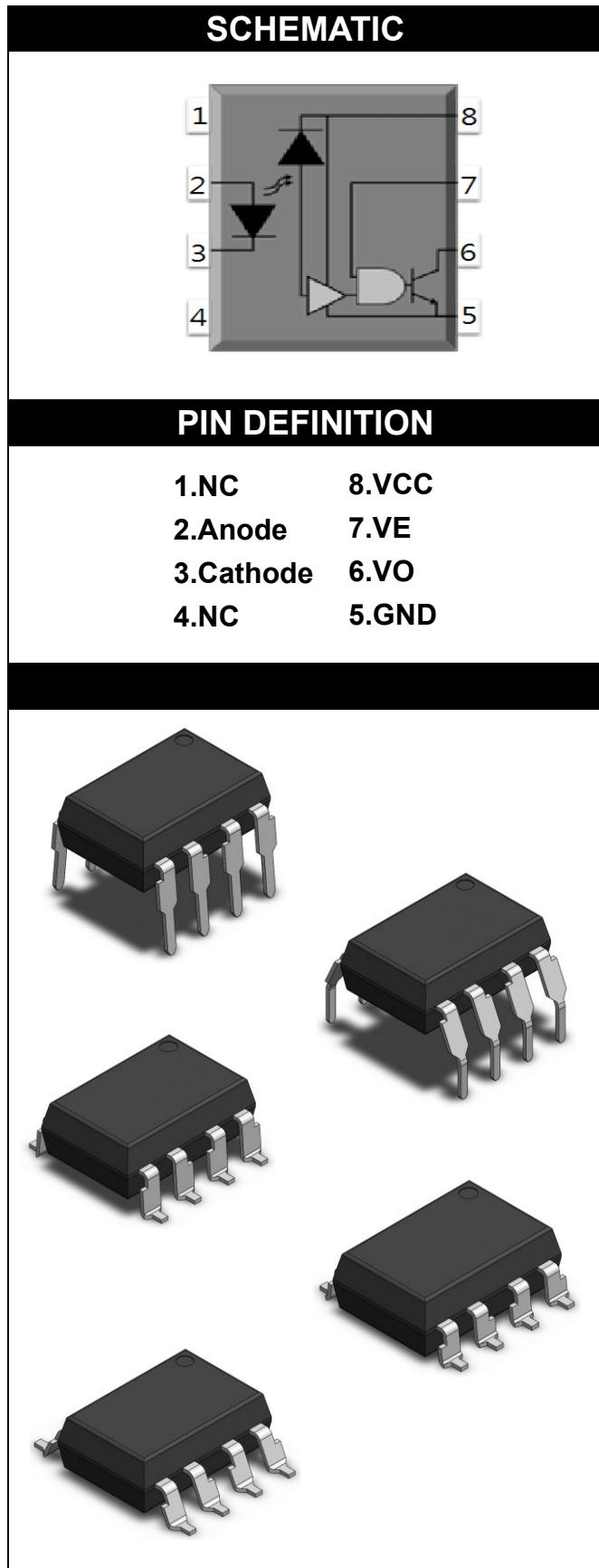
The 6N137, MPC2601, MPC2611 series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a silicon high speed integrated photo-detector logic gate with a strobable output in a plastic DIP8 package with different lead forming options.

### **Features**

- High isolation 5000 VRMS
- DC input with logic gate output
- Operating temperature range - 55 °C to 100 °C
- REACH compliance
- Halogen free (Optional)
- MSL class 1
- Regulatory Approvals (Pending Approved)
  - UL - UL1577
  - VDE - EN60747-5-5(VDE0884-5)
  - CQC – GB4943.1, GB8898

### **Applications**

- Ground loop elimination
- LSTTL to TTL, LSTTL or CMOS
- Line receiver, data transmission
- Data multiplexing
- Switching power supply
- Pulse transformer replacement
- Computer-peripheral interface





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## DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler

ABSOLUTE MAXIMUM RATINGS				
PARAMETER	SYMBOL	VALUE	UNIT	Note
INPUT				
Forward Current	I <sub>F</sub>	25	mA	
Peak Forward Current	I <sub>FP</sub>	50	mA	1
Peak Transient Current	I <sub>F(trans)</sub>	1	A	2
Reverse Voltage	V <sub>R</sub>	5	V	
Enable Voltage	V <sub>E</sub>	VCC+0.5	V	
Input Power Dissipation	P <sub>I</sub>	100	mW	
OUTPUT				
Supply Voltage	V <sub>CC</sub>	7	V	
Output Voltage	V <sub>O</sub>	7	V	
Output Current	I <sub>O</sub>	50	mA	
Output Power Dissipation	P <sub>O</sub>	85	mW	
COMMON				
Total Power Dissipation	P <sub>tot</sub>	200	mW	
Isolation Voltage	V <sub>iso</sub>	5000	V <sub>rms</sub>	3
Operating Temperature	T <sub>opr</sub>	-55~100	°C	
Storage Temperature	T <sub>stg</sub>	-55~125	°C	
Soldering Temperature	T <sub>sol</sub>	260	°C	4

Note 1. 50% duty, 1ms P.W

Note 2. ≤1μs P.W, 300pps

Note 3. AC For 1 Minute, R.H. = 40 ~ 60%

Note 4. For 10 seconds



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RECOMMENDED OPERATION CONDITIONS					
PARAMETER	SYMBOL	MIN.	MAX.	UNIT	
Operating Temperature	TA	-40	100	°C	
Supply Voltage	VCC	2.7	3.6	V	
	VCC	4.5	5.5	V	
Low Level Input Current	IFL	0	250	µA	
High Level Input Current	IFH	5	15	mA	
Low Level Enable Voltage	VEL	0	0.8	V	
High Level Enable Voltage	VEH	2	VCC	V	
Output Pull-up Resistor	RL	330	4k	Ω	
Fan Out (at RL=1kΩ per channel)	N	-	5	TTL Loads	

ELECTRICAL OPTICAL CHARACTERISTICS at Ta=25°C						
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
INPUT						
Forward Voltage	V <sub>F</sub>	-	1.38	1.8	V	I <sub>F</sub> =10mA
Reverse Current	I <sub>R</sub>	-	-	10	µA	V <sub>R</sub> =5V
Input Capacitance	C <sub>in</sub>	-	13	-	pF	V=0, f=1MHz
OUTPUT						
High Level Supply Current	I <sub>CCH</sub>	-	6.3	10	mA	I <sub>F</sub> =0mA, V <sub>E</sub> =0.5V, V <sub>CC</sub> =5.5V
Low Level Supply Current	I <sub>CCL</sub>	-	8.3	13	mA	I <sub>F</sub> =10mA, V <sub>CC</sub> =5.5V
High Level Enable Current	I <sub>EH</sub>	-	-0.52	-1.6	mA	V <sub>E</sub> =2.0V, V <sub>CC</sub> =5.5V
Low Level Enable Current	I <sub>EL</sub>	-	-0.75	-1.6	mA	V <sub>E</sub> =0.5V, V <sub>CC</sub> =5.5V
High Level Enable Voltage	V <sub>EH</sub>	2.0	-	-	V	I <sub>F</sub> =10mA, V <sub>CC</sub> =5.5V
Low Level Enable Voltage	V <sub>EL</sub>	-	-	0.8	V	I <sub>F</sub> =10mA, V <sub>CC</sub> =5.5V
TRANSFER CHARACTERISTICS (Ta=-40 to 85°C)						
High Level Output Current	I <sub>OH</sub>	-	0.73	100	µA	V <sub>CC</sub> =5.5V, V <sub>O</sub> =5.5V, I <sub>F</sub> =250µA, V <sub>E</sub> =2.0V
Low Level Output Voltage	V <sub>OL</sub>	-	0.28	0.6	V	V <sub>CC</sub> =5.5V, I <sub>F</sub> =5mA, V <sub>E</sub> =2.0V, I <sub>CL</sub> =13mA
Input Threshold Current	I <sub>FT</sub>	-	2.5	5	mA	V <sub>CC</sub> =5.5V, V <sub>O</sub> =0.6V, V <sub>E</sub> =2.0V, I <sub>OL</sub> =13mA
Isolation Resistance	R <sub>iso</sub>	10 <sup>12</sup>	10 <sup>14</sup>	-	Ω	DC500V, 40 ~ 60% R.H.
Floating Capacitance	C <sub>IO</sub>	-	1.0	-	pF	V=0, f=1MHz



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ELECTRICAL OPTICAL CHARACTERISTICS							
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	NOTE
SWITCHING CHARACTERISTICS (Ta=-40 to 85°C, V <sub>CC</sub> =5V, I <sub>F</sub> =7.5mA unless specified otherwise)							
Propagation Delay Time to Output Low Level	TPHL	-	35	75	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω, Ta=25°C	
Propagation Delay Time to Output High Level	TPLH	-	40	75	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω, Ta=25°C	
Pulse Width Distortion	TPHL-TPLH	-	5	35	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Rise Time	tr	-	27	-	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Fall Time	tf	-	7	-	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Enable Propagation Delay Time to Output Low Level	TEHL	-	15	-	ns	I <sub>F</sub> =7.5mA, V <sub>EH</sub> =3.5V, C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Enable Propagation Delay Time to Output High Level	TELH	-	15	-	ns	I <sub>F</sub> =7.5mA, V <sub>EH</sub> =3.5V, C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Common Mode Transient Immunity at Logic High	6N137	CMH	-	-	-	I <sub>F</sub> = 7.5mA , V <sub>OH</sub> =2.0V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =10Vp-p	
	MPC2601		5000	-	-		
	MPC2611		10000	-	-		
Common Mode Transient Immunity at Logic Low	6N137	CML	-	-	-	I <sub>F</sub> = 0mA , V <sub>OH</sub> =0.8V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =10Vp-p	
	MPC2601		5000	-	-		
	MPC2611		10000	-	-		



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ELECTRICAL OPTICAL CHARACTERISTICS at Ta=25°C							
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	NOTE
INPUT							
Forward Voltage	V <sub>F</sub>	-	1.38	1.8	V	I <sub>F</sub> =10mA	
Reverse Current	I <sub>R</sub>	-	-	10	μA	V <sub>R</sub> =5V	
Input Capacitance	C <sub>in</sub>	-	13	-	pF	V=0, f=1MHz	
OUTPUT							
High Level Supply Current	I <sub>CCH</sub>	-	4.3	10	mA	I <sub>F</sub> =0mA, V <sub>E</sub> =0.5V, V <sub>CC</sub> =3.3V	
Low Level Supply Current	I <sub>CCL</sub>	-	6.4	13	mA	I <sub>F</sub> =10mA, V <sub>CC</sub> =3.3V	
High Level Enable Current	I <sub>EH</sub>	-	-0.21	-1.6	mA	V <sub>E</sub> =2.0V, V <sub>CC</sub> =3.3V	
Low Level Enable Current	I <sub>EL</sub>	-	-0.42	-1.6	mA	V <sub>E</sub> =0.5V, V <sub>CC</sub> =3.3V	
High Level Enable Voltage	V <sub>EH</sub>	2.0	-	-	V	I <sub>F</sub> =10mA, V <sub>CC</sub> =3.3V	
Low Level Enable Voltage	V <sub>EL</sub>	-	-	0.8	V	I <sub>F</sub> =10mA, V <sub>CC</sub> =3.3V	
TRANSFER CHARACTERISTICS (Ta=-40 to 85°C)							
High Level Output Current	I <sub>OH</sub>	-	4.1	100	μA	V <sub>CC</sub> =3.3V, V <sub>O</sub> =3.3V, I <sub>F</sub> =250μA, V <sub>E</sub> =2.0V	
Low Level Output Voltage	V <sub>OL</sub>	-	0.29	0.6	V	V <sub>CC</sub> =3.3V, I <sub>F</sub> =5mA, V <sub>E</sub> =2.0V, I <sub>OL</sub> =13mA	
Input Threshold Current	I <sub>FT</sub>	-	2.2	5	mA	V <sub>CC</sub> =3.3V, V <sub>O</sub> =0.6V, V <sub>E</sub> =2.0V, I <sub>OL</sub> =13mA	
Isolation Resistance	R <sub>iso</sub>	10 <sup>12</sup>	10 <sup>14</sup>	-	Ω	DC500V, 40 ~ 60% R.H.	
Floating Capacitance	C <sub>IO</sub>	-	1.0	-	pF	V=0, f=1MHz	



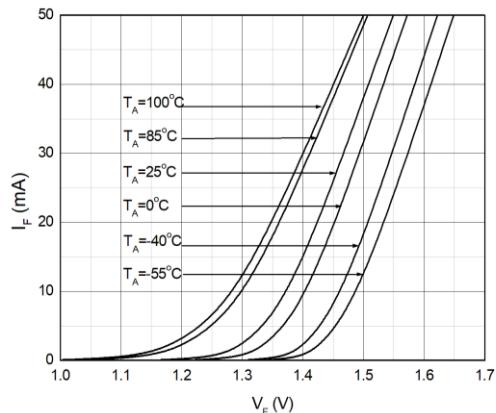
# 6N137, MPC2601, MPC2611 Series

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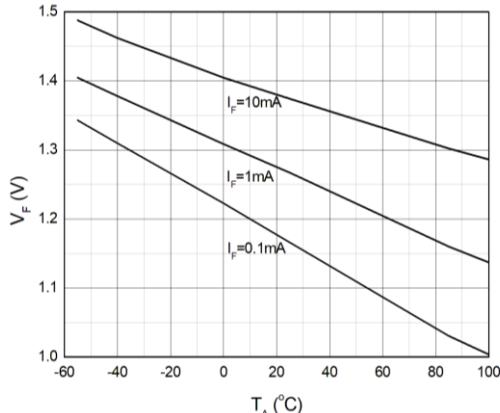
ELECTRICAL OPTICAL CHARACTERISTICS							
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	NOTE
SWITCHING CHARACTERISTICS (Ta=-40 to 85°C, V <sub>CC</sub> =3.3V, I <sub>F</sub> =7.5mA unless specified otherwise)							
Propagation Delay Time to Output Low Level	TPHL	-	35	75	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω, Ta=25°C	
Propagation Delay Time to Output High Level	TPLH	-	47	75	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω, Ta=25°C	
Pulse Width Distortion	TPHL-TPLH	-	12	35	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Rise Time	tr	-	30	-	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Fall Time	tf	-	8.5	-	ns	C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Enable Propagation Delay Time to Output Low Level	TEHL	-	15	-	ns	I <sub>F</sub> =7.5mA, V <sub>EH</sub> =3.3.3V, C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Enable Propagation Delay Time to Output High Level	TELH	-	15	-	ns	I <sub>F</sub> =7.5mA, V <sub>EH</sub> =3.3.3V, C <sub>L</sub> =15pF, R <sub>L</sub> =350Ω	
Common Mode Transient Immunity at Logic High	6N137	CMH	-	-	-	V/μs	I <sub>F</sub> = 7.5mA , V <sub>OH</sub> =2.0V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =10Vp-p
	MPC2601		5000	-	-		I <sub>F</sub> = 7.5mA , V <sub>OH</sub> =2.0V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =50Vp-p
	MPC2611		10000	-	-		I <sub>F</sub> = 7.5mA , V <sub>OH</sub> =2.0V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =400Vp-p
Common Mode Transient Immunity at Logic Low	6N137	CML	-	-	-	V/μs	I <sub>F</sub> = 0mA , V <sub>OH</sub> =0.8V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =10Vp-p
	MPC2601		5000	-	-		I <sub>F</sub> = 0mA , V <sub>OH</sub> =0.8V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =50Vp-p
	MPC2611		10000	-	-		I <sub>F</sub> = 0mA , V <sub>OH</sub> =0.8V, R <sub>L</sub> =350Ω, Ta=25°C V <sub>CM</sub> =400Vp-p

### CHARACTERISTIC CURVES

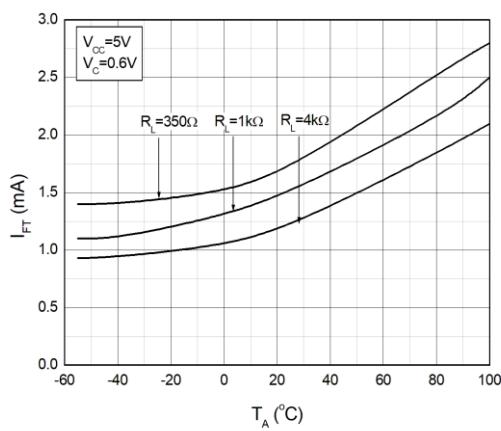
**Fig.1 Forward Current  
vs. Forward Voltage**



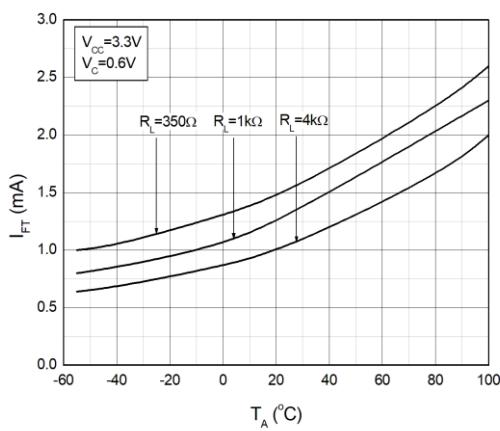
**Fig.2 Forward Voltage  
vs. Ambient Temperature**



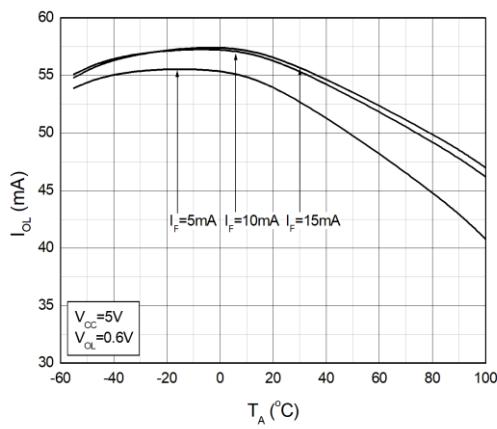
**Fig.3 Input Threshold Current  
vs. Ambient Temperature**



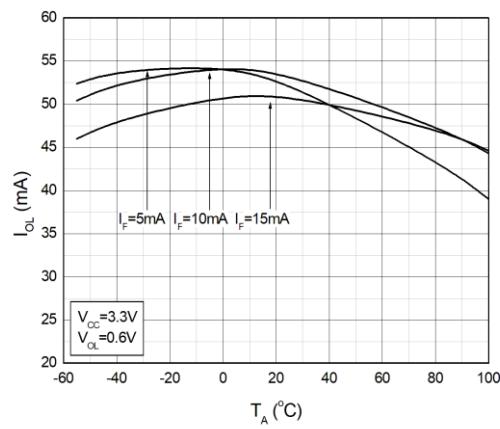
**Fig.4 Input Threshold Current  
vs. Ambient Temperature**



**Fig.5 Low Level Output Current  
vs. Ambient Temperature**



**Fig.6 Low Level Output Current  
vs. Ambient Temperature**





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### CHARACTERISTIC CURVES

Fig.7 Low Level Output Voltage  
vs. Ambient Temperature

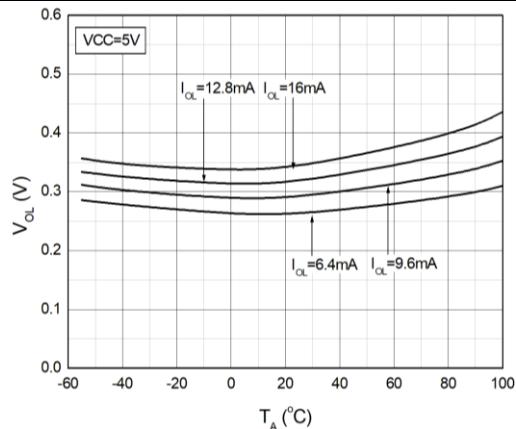


Fig.8 Low Level Output Voltage  
vs. Ambient Temperature

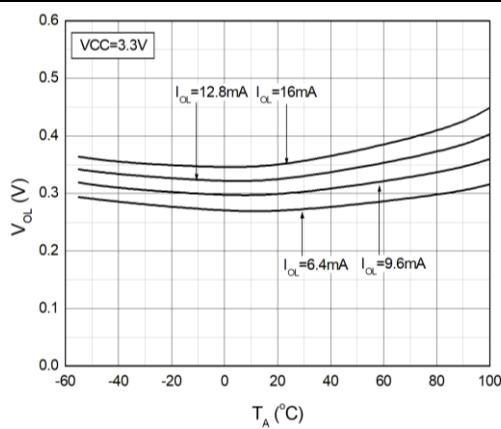


Fig.9 High Level Output Current  
vs. Ambient Temperature

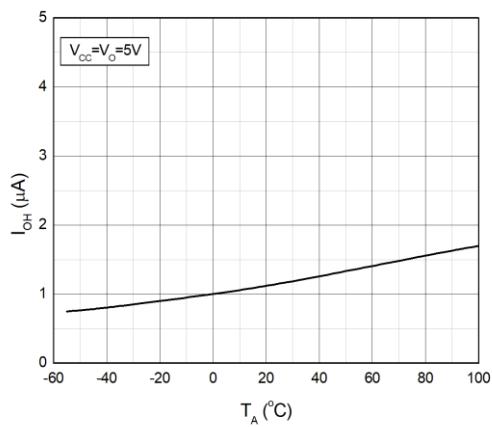


Fig.10 High Level Output Current  
vs. Ambient Temperature

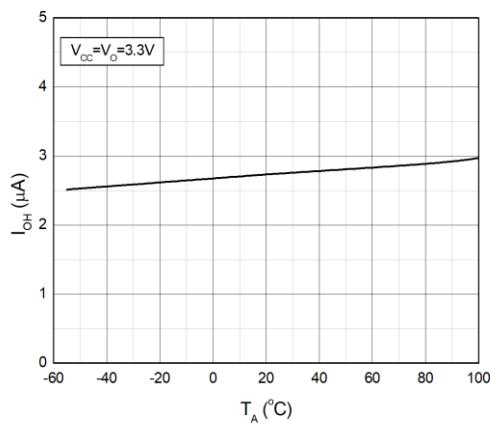


Fig.11 Output Voltage  
vs. Forward Current

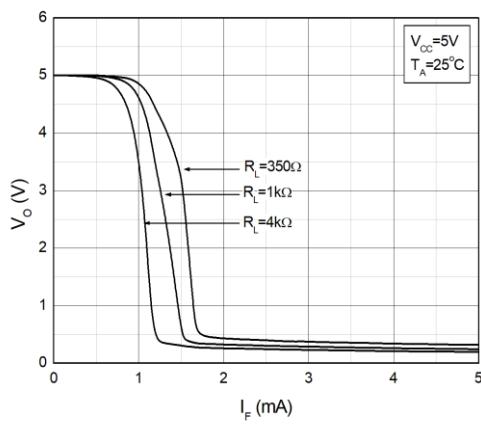
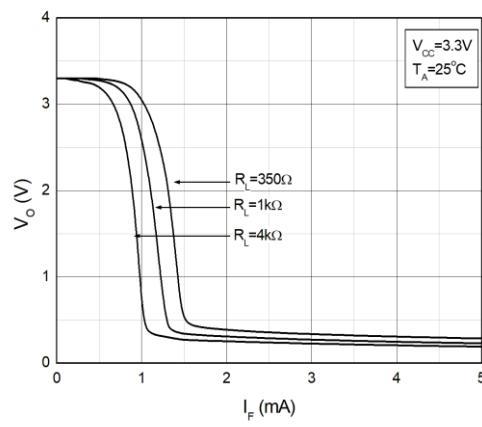
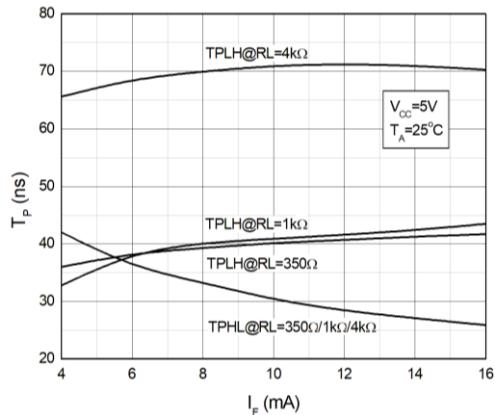


Fig.12 Output Voltage  
vs. Forward Current

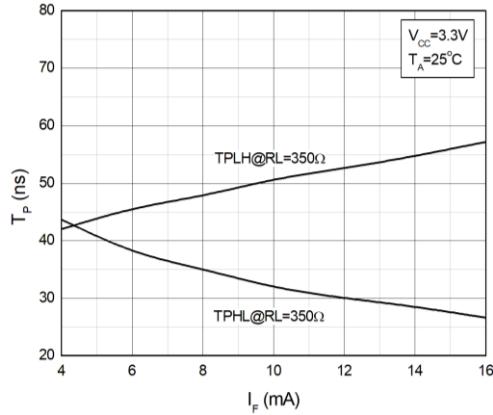


### CHARACTERISTIC CURVES

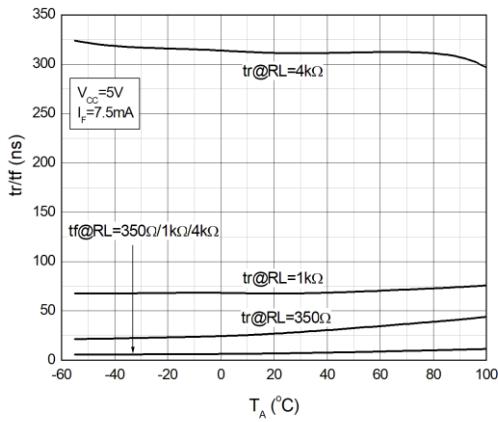
**Fig.13 Propagation Delay  
vs. Forward Current**



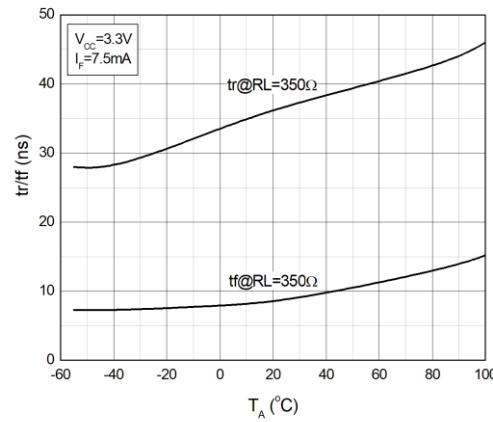
**Fig.14 Propagation Delay  
vs. Forward Current**



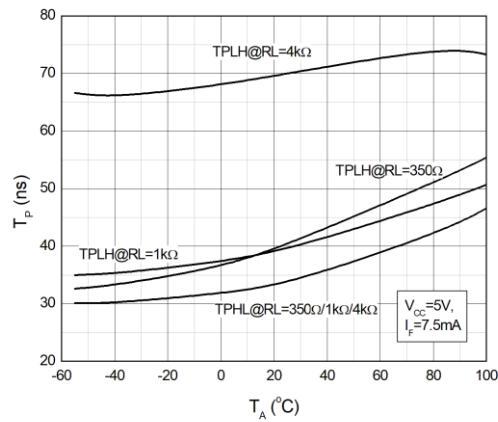
**Fig.15 Rise and Fall Time  
vs. Ambient Temperature**



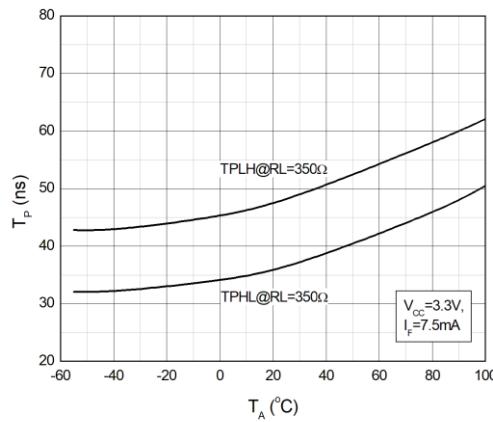
**Fig.16 Rise and Fall Time  
vs. Ambient Temperature**



**Fig.17 Propagation Delay  
vs. Ambient Temperature**



**Fig.18 Propagation Delay  
vs. Ambient Temperature**





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### CHARACTERISTIC CURVES

Fig.19 Pulse Width Distortion  
vs. Ambient Temperature

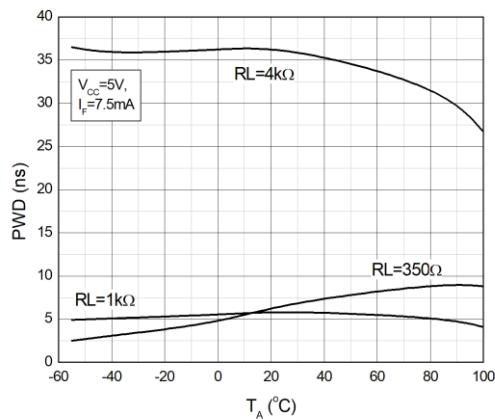


Fig.20 Pulse Width Distortion  
vs. Ambient Temperature

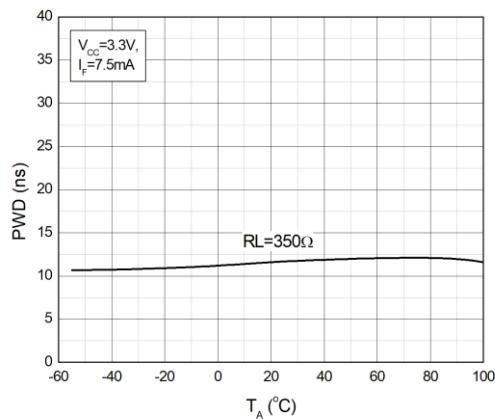


Fig.21 Enable Propagation Delay  
vs. Ambient Temperature

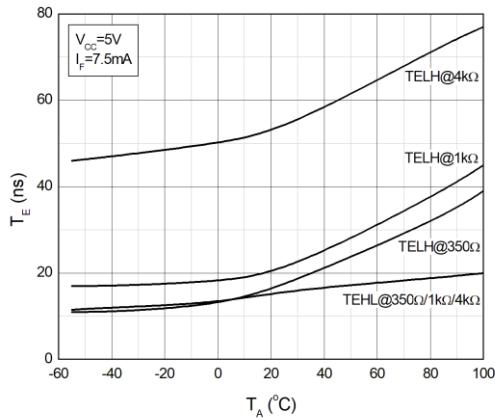
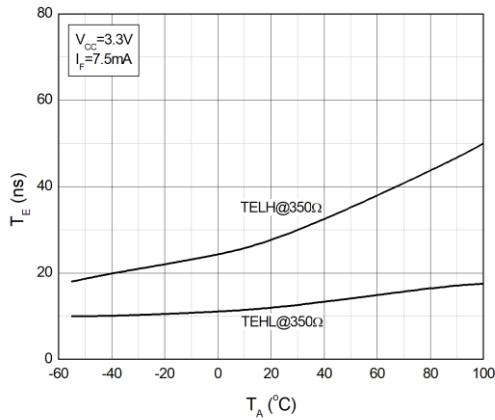


Fig.22 Enable Propagation Delay  
vs. Ambient Temperature





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## DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler

### TEST CIRCUITS

Fig.23 Test Circuits for TPHL, TPLH, tr, tf

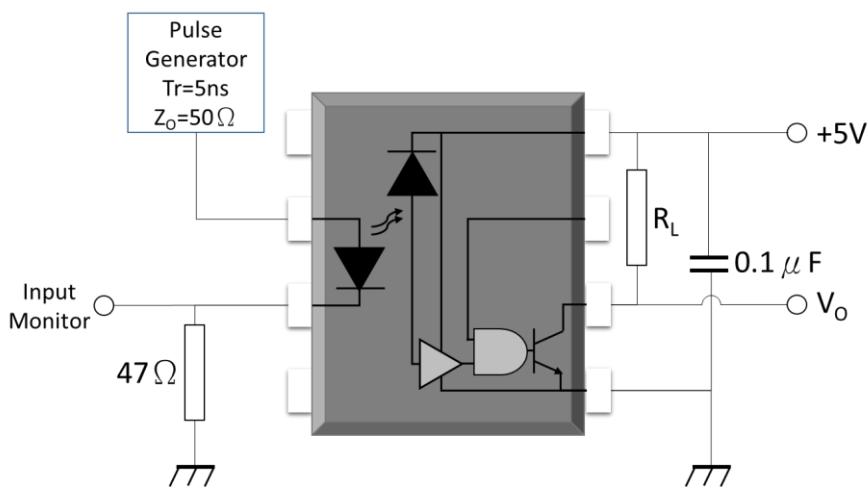
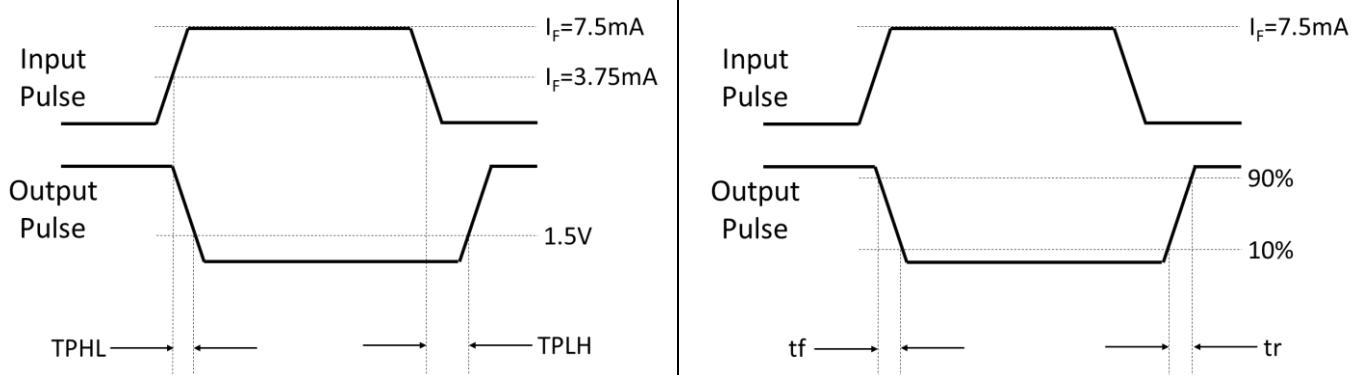


Fig.24 Waveforms of TPHL, TPLH, tr, tf



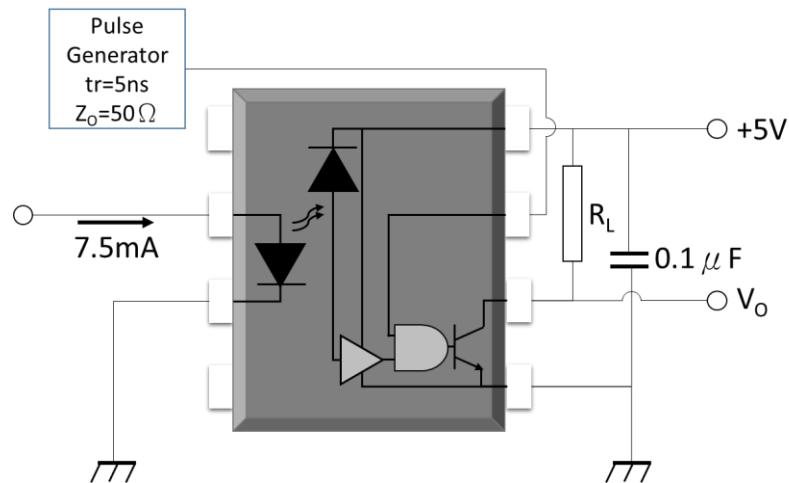


# ***6N137, MPC2601, MPC2611 Series***

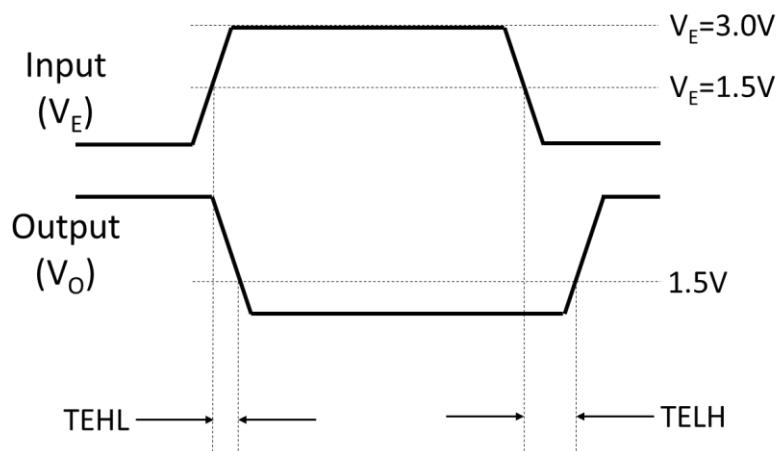
## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **TEST CIRCUITS**

**Fig.25 Test Circuits for TEHL, TELH**

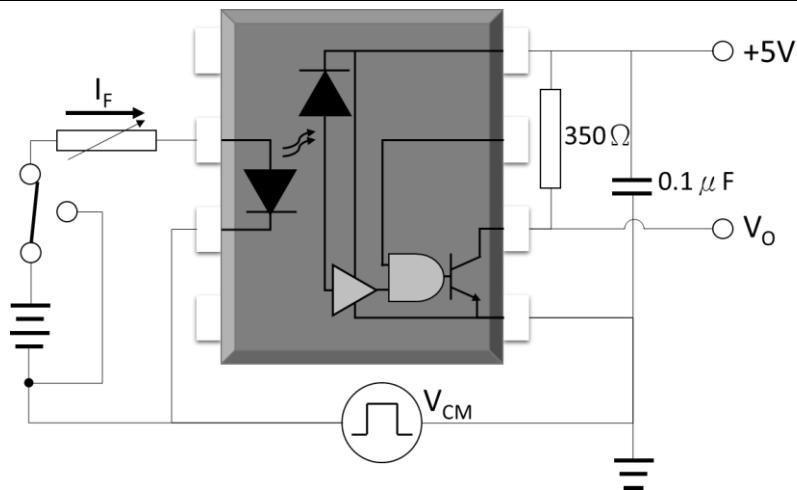


**Fig.26 Waveforms of TEHL, TELH**

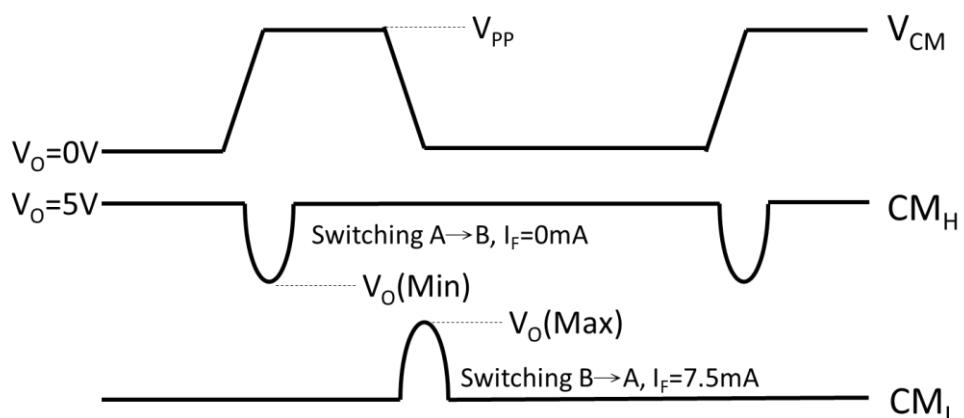


### TEST CIRCUITS

**Fig.25 Test Circuits for Common Mode Transient Immunity**



**Fig.26 Waveforms of Common Mode Transient Immunity**



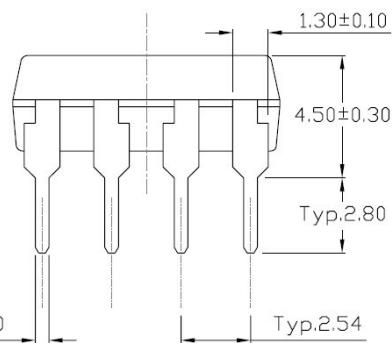
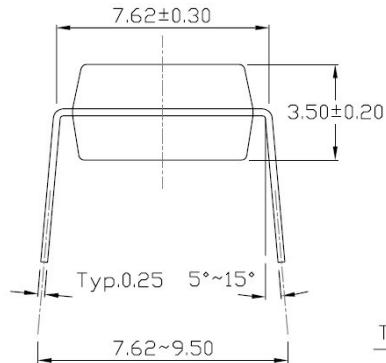
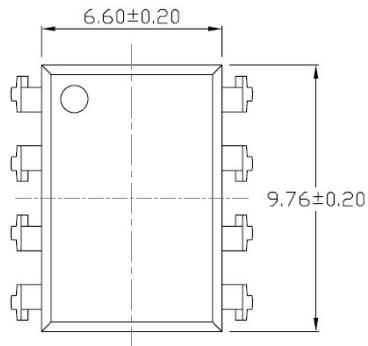


# ***6N137, MPC2601, MPC2611 Series***

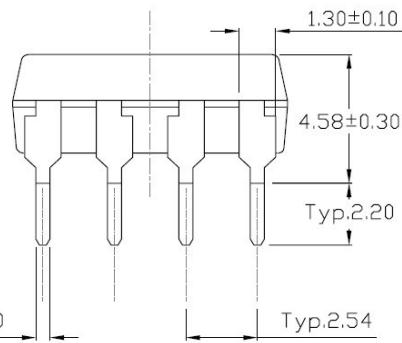
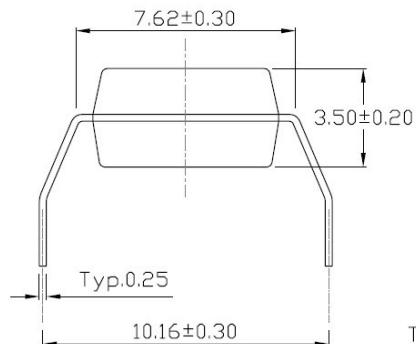
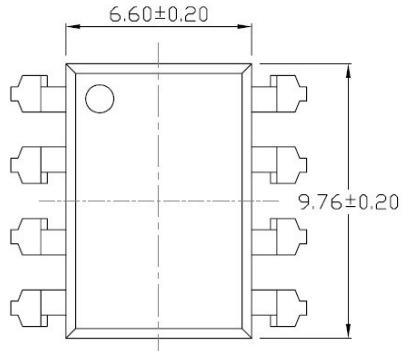
## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **PACKAGE DIMENSIONS (Dimensions in mm unless otherwise stated)**

#### **Standard DIP – Through Hole (DIP Type)**



#### **Gullwing (400mil) Lead Forming – Through Hole (M Type)**



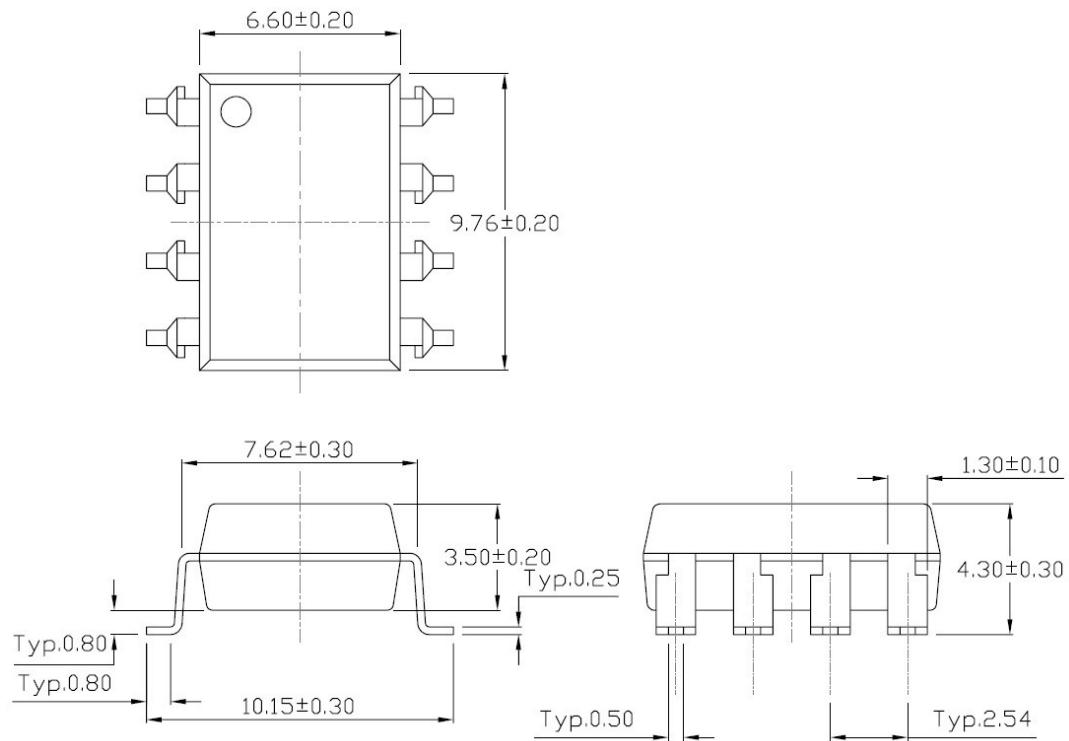


# ***6N137, MPC2601, MPC2611 Series***

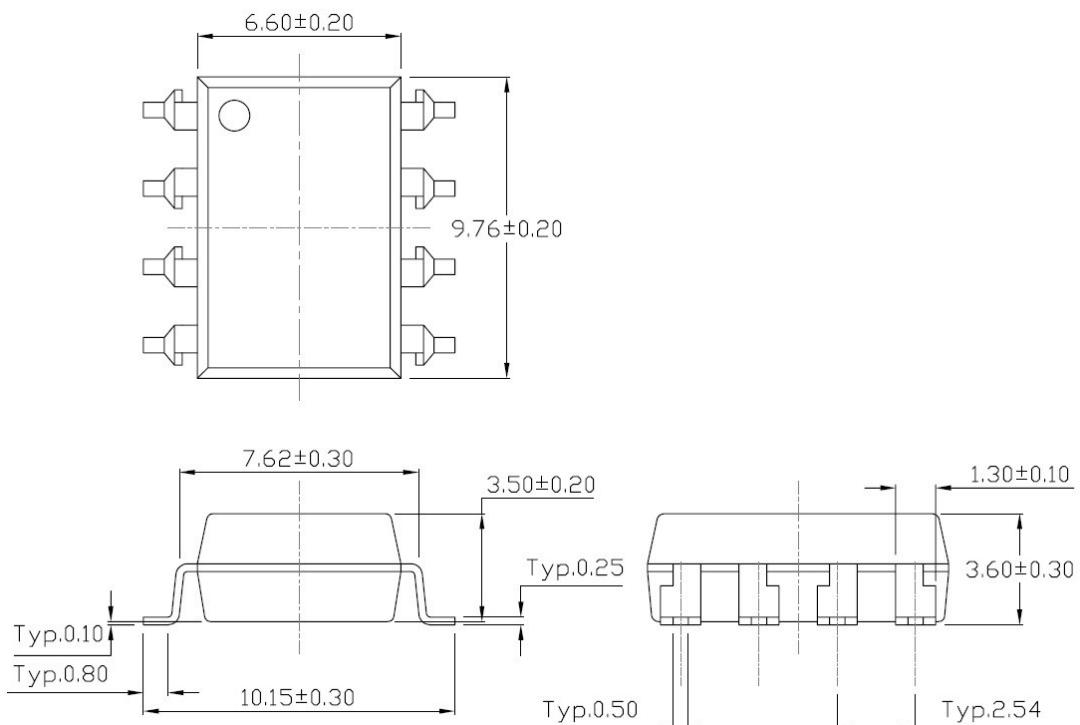
## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **PACKAGE DIMENSIONS (Dimensions in mm unless otherwise stated)**

#### **Surface Mount Lead Forming (S Type)**



#### **Surface Mount (Low Profile) Lead Forming (SL Type)**



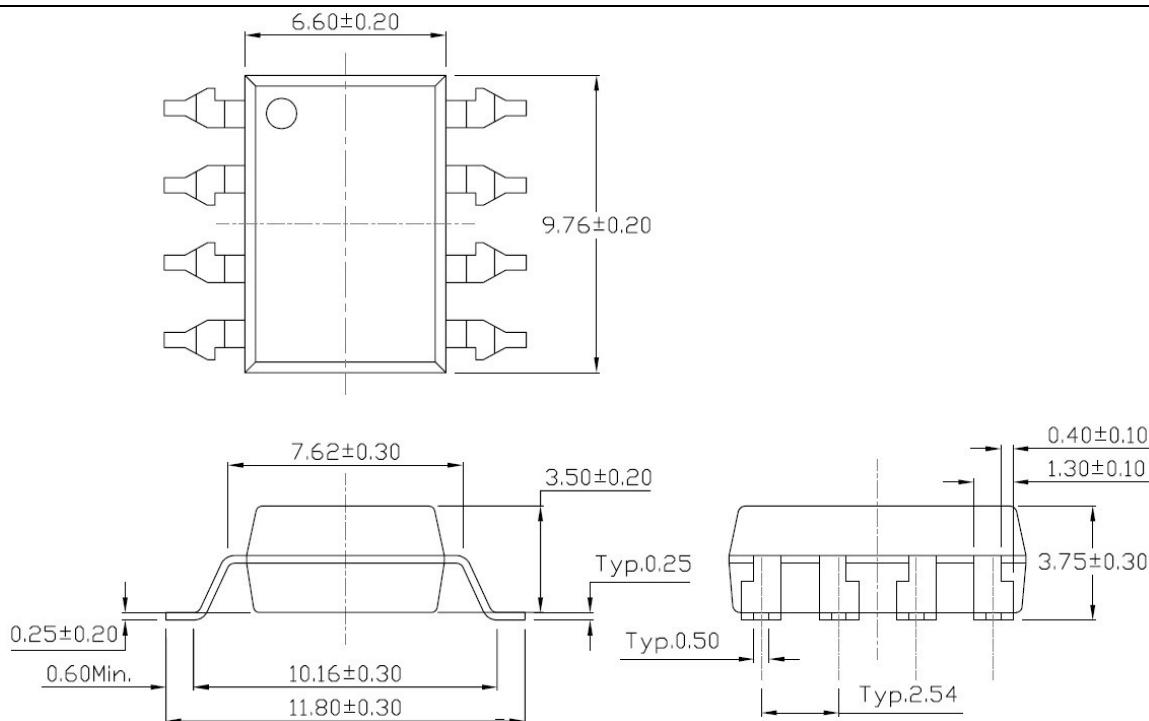


# ***6N137, MPC2601, MPC2611 Series***

## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

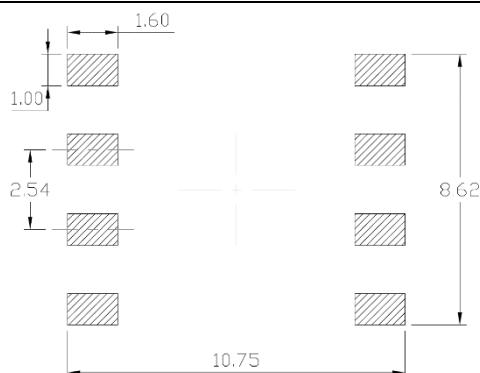
### **PACKAGE DIMENSIONS (Dimensions in mm unless otherwise stated)**

#### **Surface Mount (Gullwing) Lead Forming (SLM Type)**

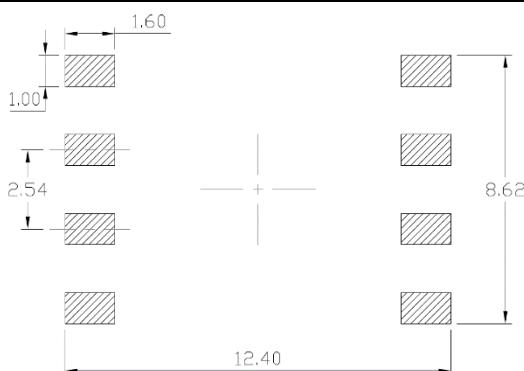


### **Recommended Solder Mask (Dimensions in mm unless otherwise stated)**

#### **Surface Mount Lead Forming & Surface Mount (Low Profile) Lead Forming**



#### **Surface Mount (Gullwing) Lead Forming**



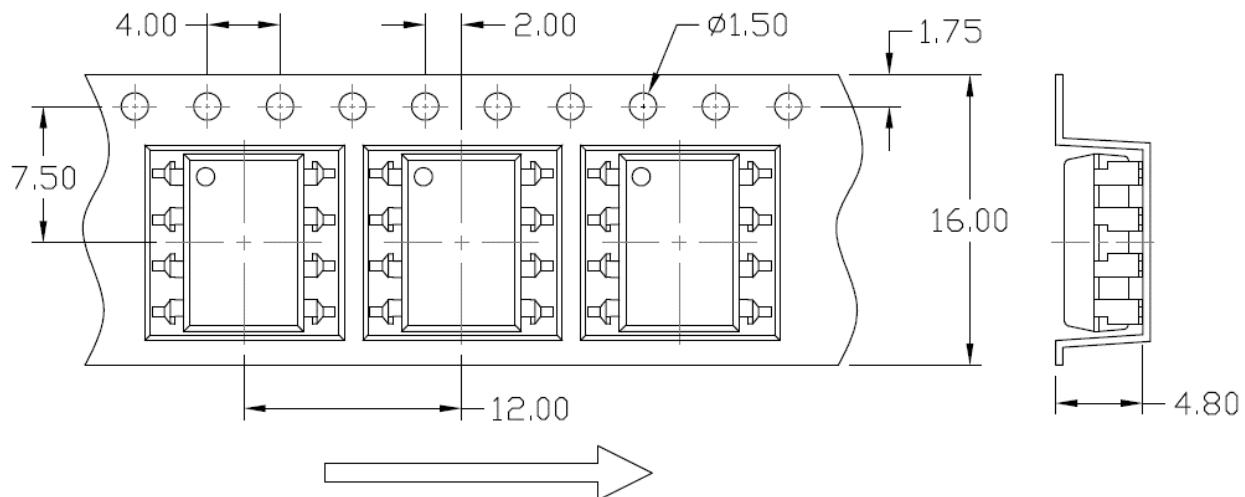


# ***6N137, MPC2601, MPC2611 Series***

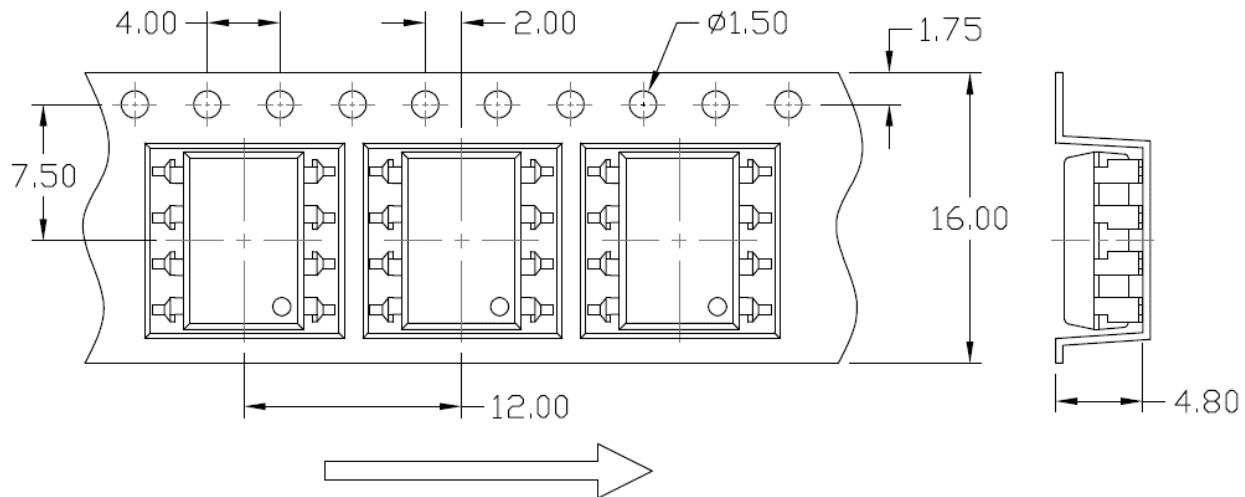
## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **Carrier Tape Specifications (Dimensions in mm unless otherwise stated)**

#### **Option S(T1) & SL(T1)**



#### **Option S(T2) & SL(T2)**



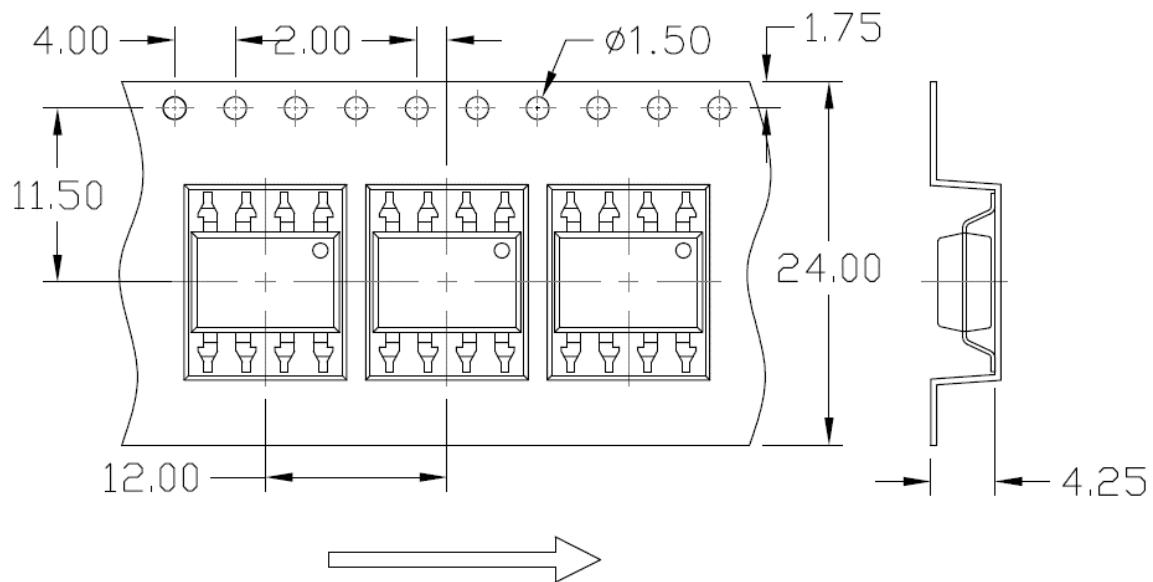


# ***6N137, MPC2601, MPC2611 Series***

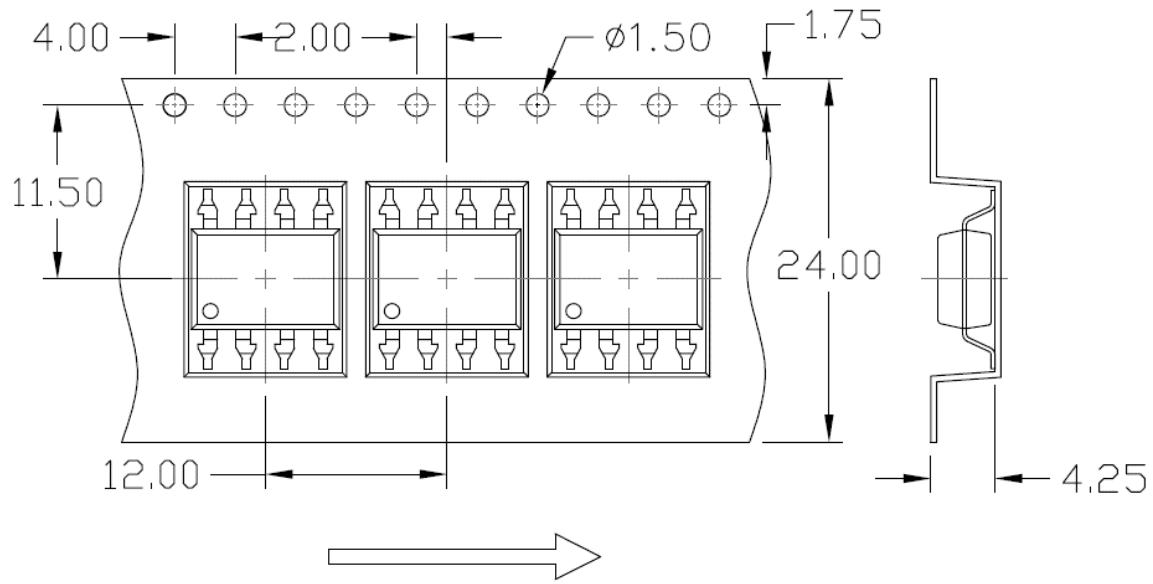
## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

**Carrier Tape Specifications (Dimensions in mm unless otherwise stated)**

### **Option SLM(T1)**



### **Option SLM(T2)**





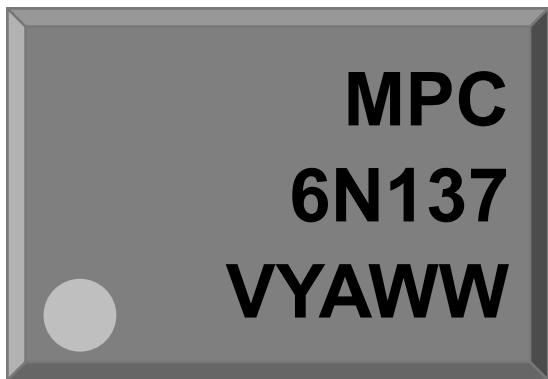
# ***6N137, MPC2601, MPC2611 Series***

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## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **ORDERING AND MARKING INFORMATION**

#### **MARKING INFORMATION**



**MPC** : Company Abbr.  
**6N137** : Part Number  
**V** : VDE Option  
**Y** : Fiscal Year  
**A** : Manufacturing Code  
**WW** : Work Week

#### **ORDERING INFORMATION**

### **6N137(Y)(Z)-GV**

6N137 – Part Number

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2)

G – Material Option (G: Green, None: Non-Green)

V – VDE Option (V or None)

#### **PACKING QUANTITY**

Option	Description	Quantity
None	Standard 8 Pin Dip	50Units/Tube
M	Gullwing(400mil) Lead Forming	50Units/Tube
S(T1)	Surface Mount Lead Forming – With Option 1 Taping	1000 Units/Reel
S(T2)	Surface Mount Lead Forming – With Option 2 Taping	1000 Units/Reel
SL(T1)	Surface Mount Lead Forming(Low Profile) – With Option 1 Taping	1000 Units/Reel
SL(T2)	Surface Mount Lead Forming(Low Profile) – With Option 2 Taping	1000 Units/Reel

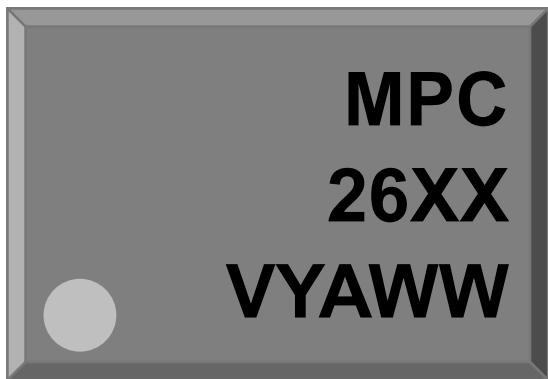


# ***6N137, MPC2601, MPC2611 Series***

## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **ORDERING AND MARKING INFORMATION**

#### **MARKING INFORMATION**



**MPC** : Company Abbr.  
**26XX** : Part Number & Rank  
**V** : VDE Option  
**Y** : Fiscal Year  
**A** : Manufacturing Code  
**WW** : Work Week

#### **ORDERING INFORMATION**

### **MPC26XX(Y)(Z)-GV**

MPC – Company Abbr.

26XX – Rank (01/11)

Y – Lead Form Option (M/S/SL/SLM/None)

Z – Tape and Reel Option (T1/T2)

G – Material Option (G: Green, None: Non-Green)

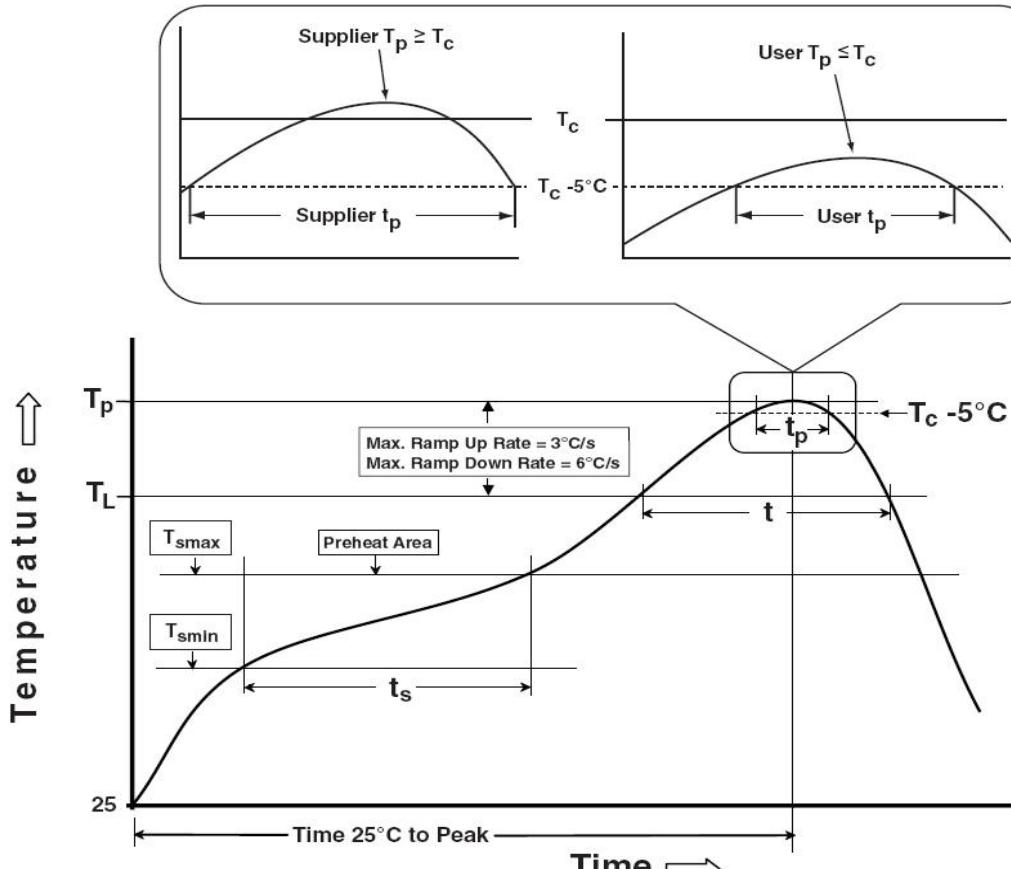
V – VDE Option (V or None)

#### **PACKING QUANTITY**

Option	Description	Quantity
None	Standard 8 Pin Dip	50Units/Tube
M	Gullwing(400mil) Lead Forming	50Units/Tube
S(T1)	Surface Mount Lead Forming – With Option 1 Taping	1000 Units/Reel
S(T2)	Surface Mount Lead Forming – With Option 2 Taping	1000 Units/Reel
SL(T1)	Surface Mount Lead Forming(Low Profile) – With Option 1 Taping	1000 Units/Reel
SL(T2)	Surface Mount Lead Forming(Low Profile) – With Option 2 Taping	1000 Units/Reel

### REFLOW INFORMATION

#### REFLOW PROFILE



Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
Temperature Min. ( $T_{smin}$ )	100	150°C
Temperature Max. ( $T_{smax}$ )	150	200°C
Time ( $t_s$ ) from ( $T_{smin}$ to $T_{smax}$ )	60-120 seconds	60-120 seconds
Ramp-up Rate (from $T_L$ to $T_p$ )	$3^\circ\text{C}/\text{second max.}$	$3^\circ\text{C}/\text{second max.}$
Liquidous Temperature ( $T_L$ )	183°C	217°C
Time ( $t_L$ ) Maintained Above ( $T_L$ )	60 – 150 seconds	60 – 150 seconds
Peak Body Package Temperature	$235^\circ\text{C} +0^\circ\text{C} / -5^\circ\text{C}$	$260^\circ\text{C} +0^\circ\text{C} / -5^\circ\text{C}$
Time ( $t_p$ ) within 5°C of 260°C	20 seconds	30 seconds
Ramp-down Rate (from $T_p$ to $T_L$ )	$6^\circ\text{C}/\text{second max.}$	$6^\circ\text{C}/\text{second max.}$
Time 25°C to Peak Temperature	6 minutes max.	8 minutes max.



# ***6N137, MPC2601, MPC2611 Series***

## ***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

### **DISCLAIMER**

- MEMCHIP is continually improving the quality, reliability, function and design. MEMCHIP reserves the right to make changes without further notices.
- The characteristic curves shown in this datasheet are representing typical performance which are not guaranteed.
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- Please contact MEMCHIP sales agent for special application request.
- Immerge unit's body in solder paste is not recommended.
- Parameters provided in datasheets may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated in each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify MEMCHIP's terms and conditions of purchase, including but not limited to the warranty expressed therein.
- Discoloration might be occurred on the package surface after soldering, reflow or long-time use. It neither impacts the performance nor reliability.



***6N137, MPC2601, MPC2611 Series***  
***DIP8, 10Mbit/s High Speed Logic Gate Photo Coupler***

版本 Rev.	生效日期 Effective Date	作者 Applicant	内容 Change Description
0.2	—	—	—

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