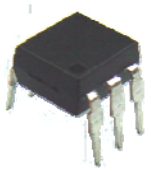
6 PIN DIP PHOTOTRANSISTOR PHOTOCOUPLER

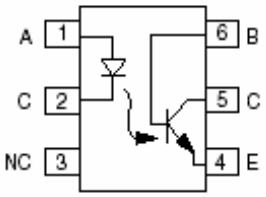
4N2X Series
4N3X Series
H11AX Series

Features:

- 4N2X series: 4N25, 4N26, 4N27, 4N28
- 4N3X series: 4N35, 4N36, 4N37, 4N38
- H11AX series: H11A1, H11A2, H11A3, H11A4, H11A5
- High isolation voltage between input and output (Viso=5000 V rms)
- Creepage distance >7.6mm
- Operating temperature up to +110°C
- Compact dual-in-line package
- Pb free and RoHS compliant.
- UL approved (No. E214129)
- VDE approved (No. 132249)
- SEMKO approval pending
- NEMKO approval pending
- DEMKO approval pending
- FIMKO approval pending
- CSA approval pending



Schematic



1. Anode
2. Cathode
3. No Connection
4. Emitter
5. Collector
6. Base

Description

The 4N2X, 4N3X, H11AX series contains an infrared emitting diode optically coupled to a phototransistor. It is packaged in a 6-pin DIP package and available in wide-lead spacing and SMD option.

Applications

- Power supply regulators
- Digital logic inputs
- Microprocessor inputs

Figure 7. Collector-Emitter Saturation Voltage vs Collector Current

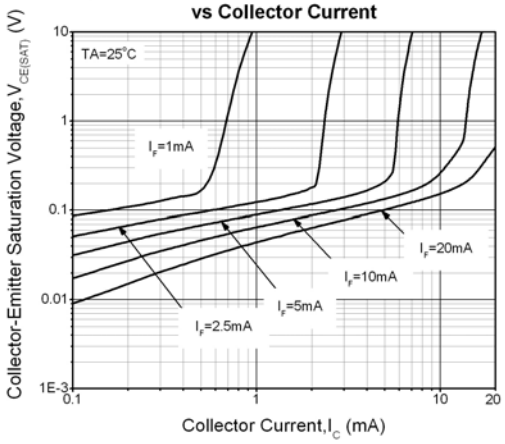


Figure 8. Switching Time vs Load Resistance

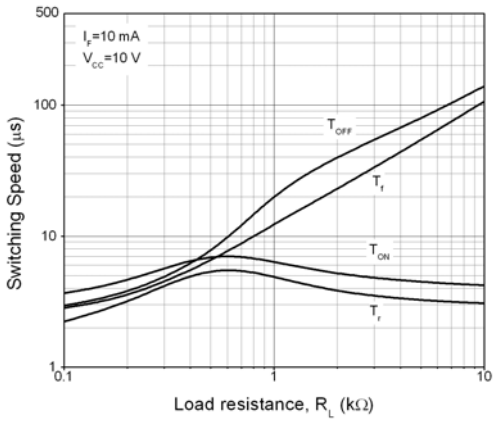


Figure 9. Turn-on Time vs Base-Emitter Resistance)

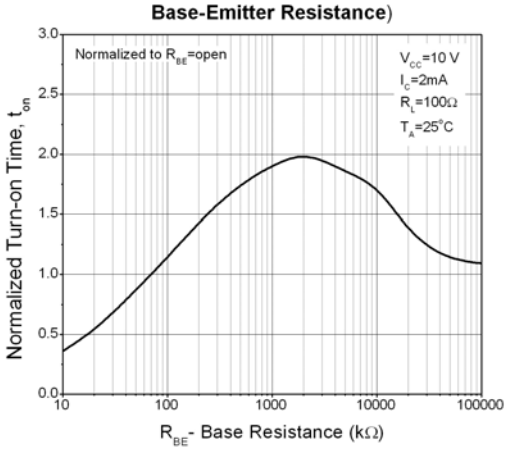
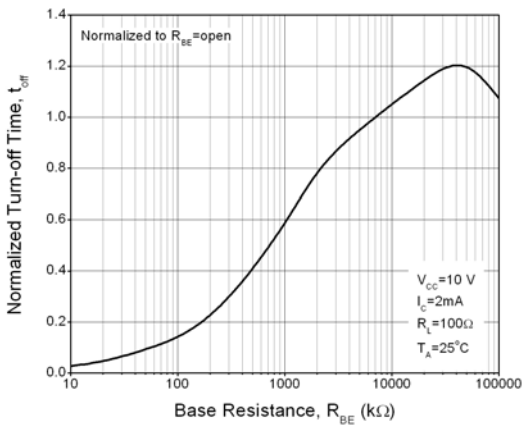


Figure 10. Turn-off Time vs Base-Emitter Resistance



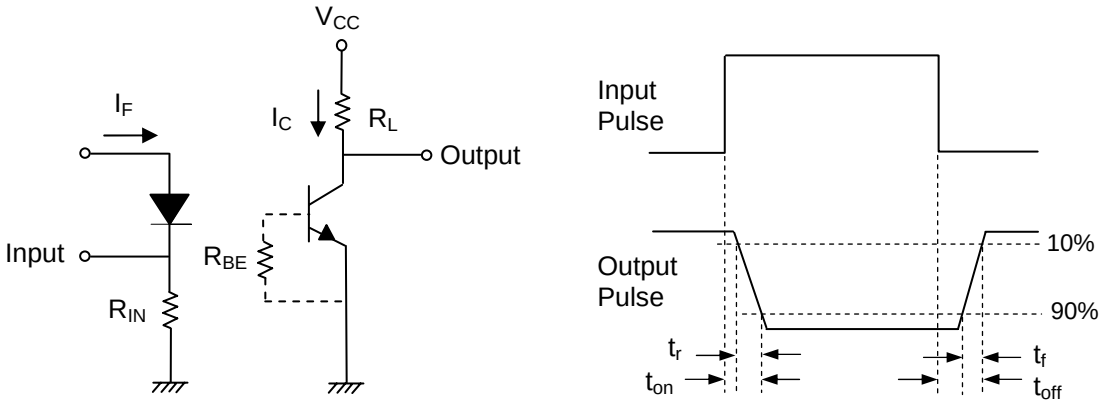


Figure 11. Switching Time Test Circuit & Waveforms

Order Information

Part Number

4NXXY(Z)-V

or

H11AXY(Z)-V

Note

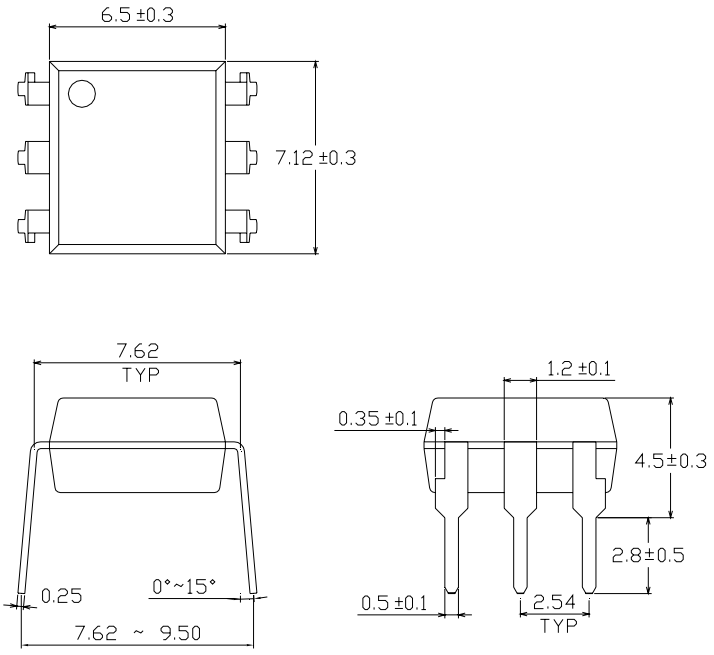
XX = Part no. for 4NXX series (25, 26, 27, 28, 35, 36, 37 or 38)
X = Part no. for H11AX series (1, 2, 3, 4, or 5)
Y = Lead form option (S, S1, M or none)
Z = Tape and reel option (TA, TB or none).
V = VDE (optional)

Option	Description	Packing quantity
None	Standard DIP-6	65 units per tube
M	Wide lead bend (0.4 inch spacing)	65 units per tube
S (TA)	Surface mount lead form + TA tape & reel option	1000 units per reel
S (TB)	Surface mount lead form + TB tape & reel option	1000 units per reel
S1 (TA)	Surface mount lead form (low profile) + TA tape & reel option	1000 units per reel
S1 (TB)	Surface mount lead form (low profile) + TB tape & reel option	1000 units per reel

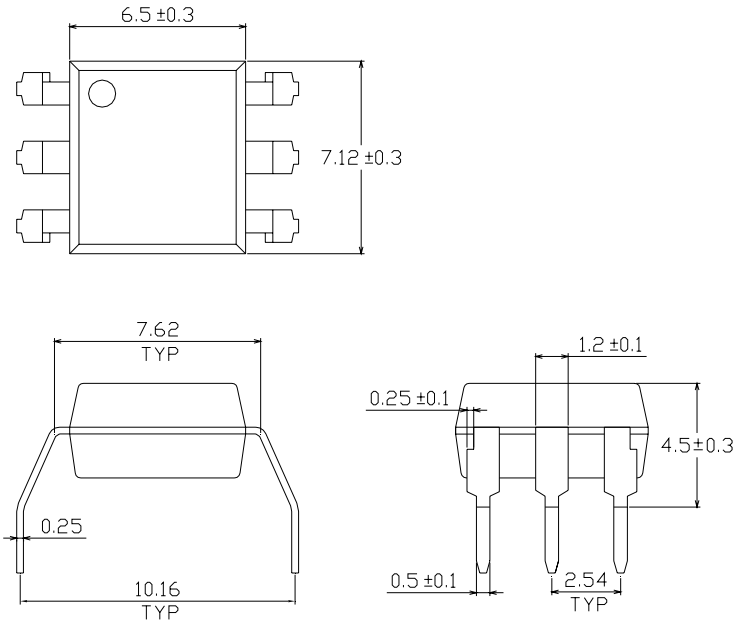
Package Drawings

(Dimensions in mm)

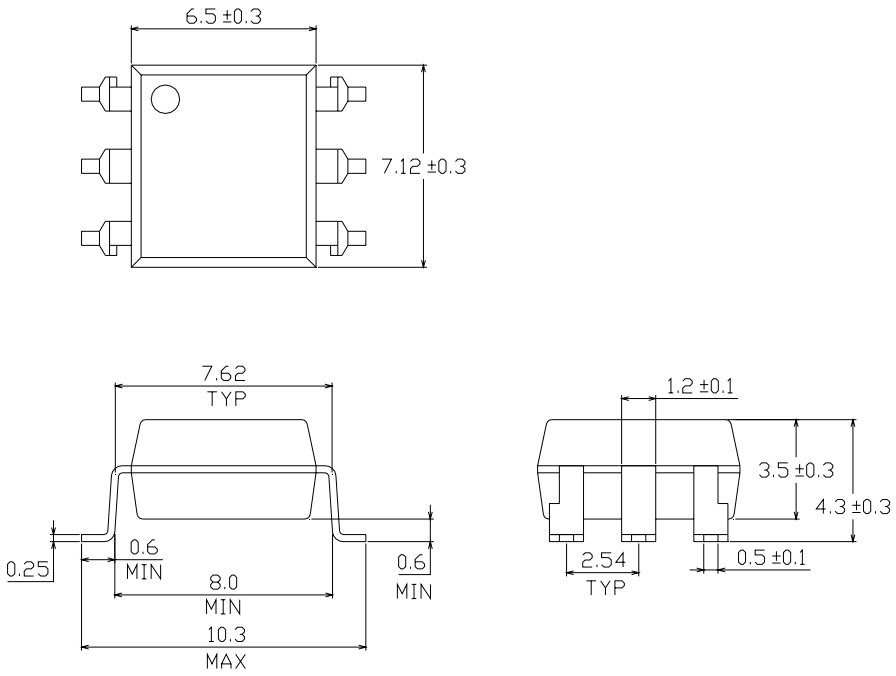
Standard DIP Type



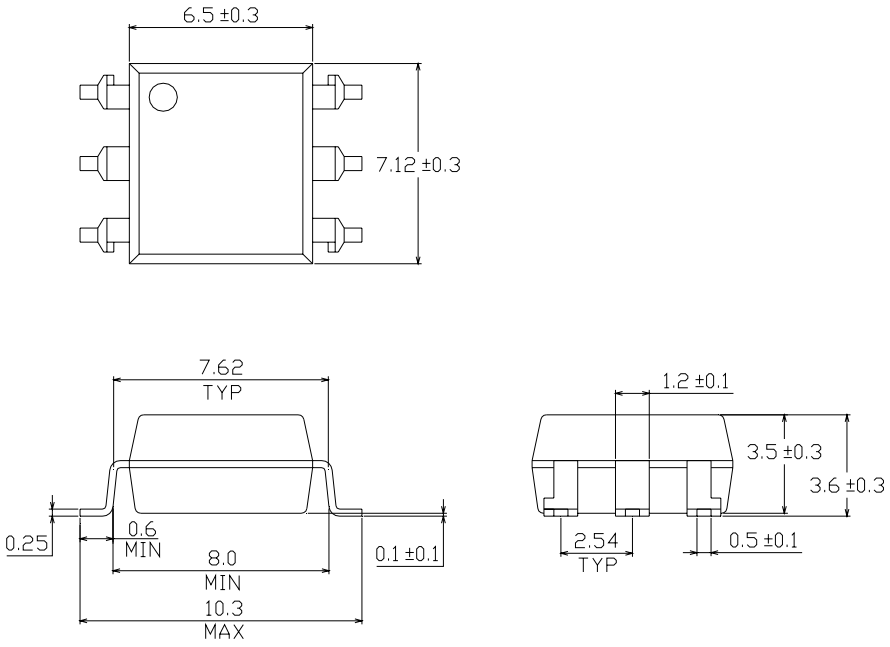
Option M Type



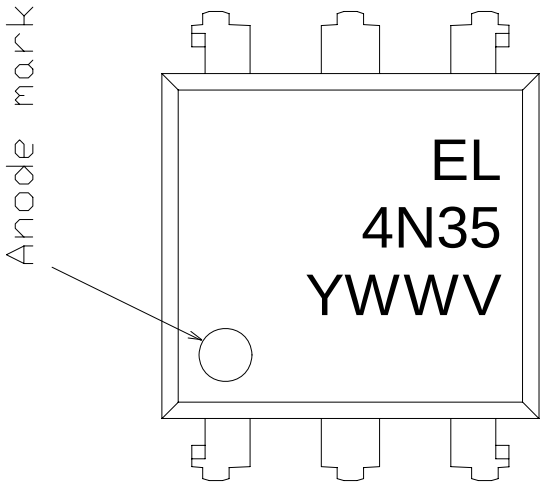
Option S Type



Option S1 Type



Device Marking

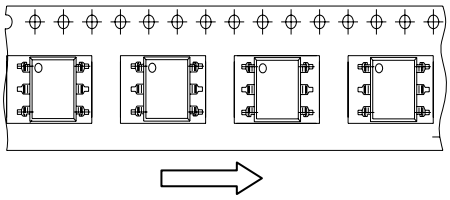


Notes

EL	denotes Everlight
4N35	denotes Device Number
Y	denotes 1 digit Year code
WW	denotes 2 digit Week code
V	denotes VDE (optional)

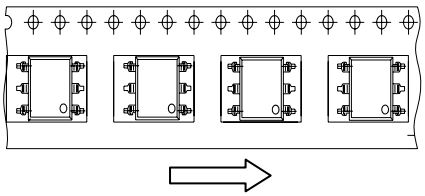
Tape & Reel Packing Specifications

Option TA



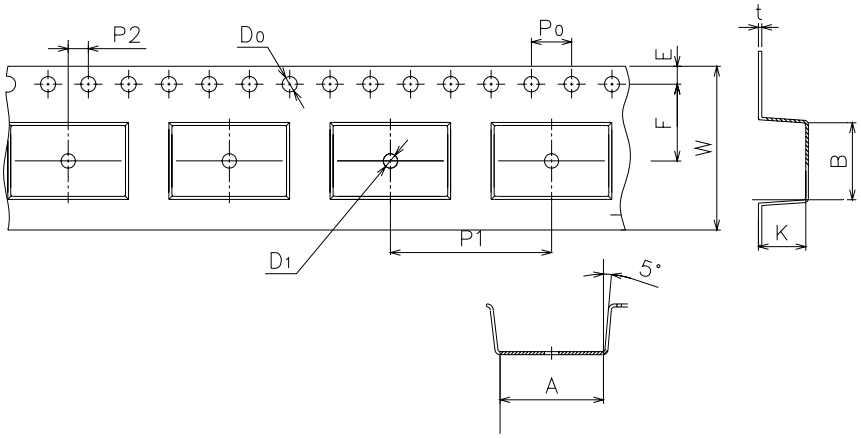
Direction of feed from reel

Option TB



Direction of feed from reel

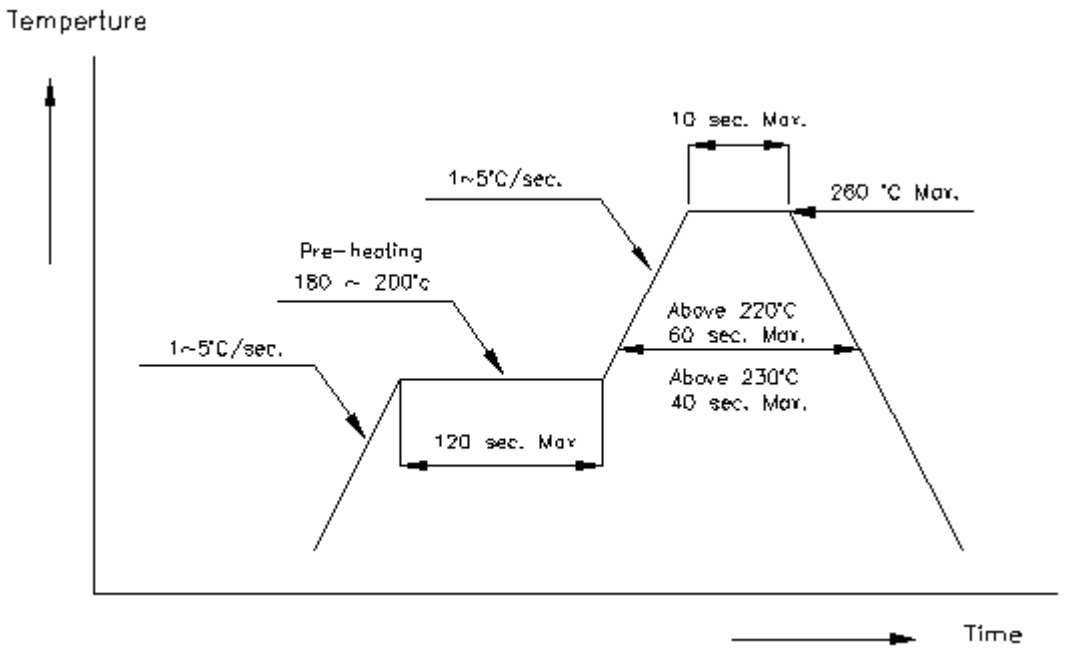
Tape dimensions



Dimension No.	A	B	Do	D1	E	F
Dimension (mm)	10.4±0.1	7.52±0.1	1.5±0.1	1.5+0.1/-0	1.75±0.1	7.5±0.1

Dimension No.	Po	P1	P2	t	W	K
Dimension (mm)	4.0±0.15	16.0±0.1	2.0±0.1	0.35±0.03	16.0±0.2	4.5±0.1

Solder Reflow Temperature Profile



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