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encapsulated with green compound they are packaged in a 4 pin small outline smd package applications dc dc converters programmable controllers telecommunication equipments el3h7 a g everlight transistor output optocouplers 80 160ctr 3750vrms 55 to 110 op temp datasheet inventory pricing part el3h7 download file size 1mbkbytes page 11 pages description 4 pin ssop phototransistor photocoupler manufacturer everlight electronics co ltd the el3h7 g series devices consist of an infrared emitting diode optically coupled to a phototransistor detector encapsulated with green compound they are packaged in a 4 pin small outline smd package features halogens free br 900 ppm cl 900 ppm br cl 1500 ppm current transfer ratio ctr 50 600 at if 5ma vce 5v 4 pin ssop phototransistor photocoupler el3h7 g series schematic features halogens free br 900 ppm cl 900 ppm br cl 1500 ppm current transfer ratio ctr 50 600 at if 5ma vce 5v ctr 40 320 at if 10ma vce 5v high isolation voltage between input and output 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small ssop el3h7 a eb vg 453kb 12p 4 pin ultra small ssop el3h7 a ta vg 453kb 12p 4 pin ultra small ssop el3h7 a photocouplers use light from a light emitting diode to conduct current through a phototransistor photocouplers also known as optocouplers generate light by using a light emitting diode led to generate a current which is conducted through a phototransistor figure 1 internal equivalence circuit the eld3h7 and elq3h7 contains of an infrared emitting diode optically coupled to a phototransistor detector encapsulated with green compound eld3h7 offers 2 channels in a 8 pin small outline smd package while elq3h7 offers 4 channels in a 16 pin small outline smd package applications dc dc converters programmable controllers an ac input capable photocoupler on the other hand enables the input of an ac current moreover because output corresponds to full cycles it is easy to make the output of it continuous and quiet the internal connection of an ac input capable photocoupler and its operating principle are shown below phototransistor collector current i c ma the allowable maximum collector current that can flow through a phototransistor within the allowable power dissipation p c range when the light receiving phototransistor is conducting current at an ambient temperature of 25 c electrical characteristics current transfer ratio ctr general purpose phototransistor photocoupler part no device feature package viso vrms vceo v min ctr min ctr max i f ma ltv 214 ac input high vceo ssop4 3750 80 20 400 1 ltv 224 ac input 2 channels high vceo ssop8 3750 80 20 400 1 ltv 244 ac input 4 channels high vceo ssop16 3750 80 20 400 1 ltv 354t ac input sop4 3750 they have various brands including avx taiyo yuden walsin yageo bourns and erocore and more they have a large customer base of ido s oems odms in singapore and are dedicated to providing comprehensive customer support quick response to any requirement and finding the most competitive components 12 sgbotic part elq3h7 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photocouplers use light from a light emitting diode to conduct current through a phototransistor photocouplers also known as optocouplers generate light by using a light emitting diode led to generate a current which is conducted through a phototransistor figure 1 internal equivalence circuit

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the eld3h7 and elq3h7 contains of an infrared emitting diode optically coupled to a phototransistor detector encapsulated with green compound eld3h7 offers 2 channels in a 8 pin small outline smd package while elq3h7 offers 4 channels in a 16 pin small outline smd package applications dc dc converters programmable controllers

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an ac input capable photocoupler on the other hand enables the input of an ac current moreover because output corresponds to full cycles it is easy to make the output of it continuous and quiet the internal connection of an ac input capable photocoupler and its operating principle are shown below

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phototransistor collector current i c ma the allowable maximum collector current that can flow through a phototransistor within the allowable power dissipation p c range when the light receiving phototransistor is conducting current at an ambient temperature of 25 c electrical characteristics current transfer ratio ctr

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