

# ISOCOM COMPONENTS

## Photo Transistor In-Line Packages

Part Number	Features	Current Transfer Ratio I <sub>c</sub> / I <sub>f</sub> @ V <sub>CE</sub> = 5V Min (%)	Isolation Test Voltage (KV)	Continuous Forward Current Max (mA)	V <sub>IR</sub> (LED) I <sub>c</sub> = 10 μA mV (V)	BV <sub>CEO</sub> I <sub>c</sub> = 0.5mA Min (V)	I <sub>CEO</sub> (max) V <sub>CE</sub> = 5V Max (μA)	V <sub>CE</sub> (max) I <sub>c</sub> = 0.5mA Max (V)	Schmitt Trigger / Package Number	Assemble Safety Approvals											
										U L	C S	V S	B S	M E M K O	D E M K O	S E M K O	F I M K O				
ISP321-1	In Line LEDs and Transistors	50 - 600 CTR Selection Available "GB" 100% Min "BL" 200% Min	7.5 (pk) 5.3 (rms)	50	5	80	100 (V <sub>CE</sub> =48V)	0.4	35 / 12	X	X	X	p	X	X	X	X				
ISP621-1										X	X	X	p	X	X	X	X				
ISP521-1										X	X	p	p	X	X	X	X				
ISP817										X	X	X	p	X	X	X	X				
ISP624-1		100-1200 <sup>3</sup>						5		55	100	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.5mA)	X	X	X	p	X	X	X	X	
PS2501-1		80 - 600						5		80 (I <sub>r</sub> = 5μA)	100 (V <sub>CE</sub> = 40V)	0.3(I <sub>f</sub> =10mA) (I <sub>c</sub> =2mA)	X	X	p	p	X	X	X	X	
SFH615A-1		40-80 / 13 (I <sub>f</sub> =10 / 1mA)						70 (I <sub>c</sub> =1mA)		50	50 (V <sub>CE</sub> = 10V)	0.4 (I <sub>f</sub> =10mA) (I <sub>c</sub> =2.5mA)	X	X	p	p	p	p	p	p	
SFH615A-2		63-125 / 22 (I <sub>f</sub> =10 / 1mA)											X	X	p	p	p	p	p	p	
SFH615A-3		100-200 / 34 (I <sub>f</sub> =10 / 1mA)											100 (V <sub>CE</sub> = 10V)	X	X	p	p	p	p	p	p
SFH615A-4		160-320 / 56 (I <sub>f</sub> =10 / 1mA)											X	X	p	p	p	p	p	p	
SFH617A-1		40-80 / 13 (I <sub>f</sub> =10 / 1mA)											50 (V <sub>CE</sub> = 10V)	X	X	p	p	p	p	p	p
SFH617A-2		63-125 / 22 (I <sub>f</sub> =10 / 1mA)											X	X	p	p	p	p	p	p	
SFH617A-3		100-200 / 34 (I <sub>f</sub> =10 / 1mA)											100 (V <sub>CE</sub> = 10V)	X	X	p	p	p	p	p	p
SFH617A-4		160-320 / 56 (I <sub>f</sub> =10 / 1mA)											X	X	p	p	p	p	p	p	
SFH617G-1		40-80 / 13 (I <sub>f</sub> =10 / 1mA)											50 (V <sub>CE</sub> = 10V)	X	X	X	p	X	X	X	X
SFH617G-2		63-125 / 22 (I <sub>f</sub> =10 / 1mA)											X	X	X	p	X	X	X	X	
SFH617G-3		100-200 / 34 (I <sub>f</sub> =10 / 1mA)						100 (V <sub>CE</sub> = 10V)		X	X	p	p	X	X	X	X				
SFH617G-4		160-320 / 56 (I <sub>f</sub> =10 / 1mA)						X		X	p	p	X	X	X	X					
SFH618-2		63-125 <sup>3</sup>						55 (I <sub>c</sub> =1mA)		200 (V <sub>CE</sub> = 10V)	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.32mA)	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.5mA)	X	X	p	p	X	X	X	X	
SFH618-3		100-200 <sup>3</sup>											X	X	p	p	X	X	X	X	
SFH618-4	160-320 <sup>3</sup>	X	X	p	p	X	X		X				X								
SFH618A-2	63-125 <sup>3</sup>	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.32mA)	X	X	p	p	p		p				p	p							
SFH618A-3	100-200 <sup>3</sup>	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.5mA)	X	X	p	p	p		p				p	p							
SFH618A-4	160-320 <sup>3</sup>	0.4(I <sub>f</sub> =1mA) (I <sub>c</sub> =0.8mA)	X	X	p	p	p		p				p	p							
TIL191	20	5	80	100	0.4(I <sub>f</sub> =5mA) (I <sub>c</sub> =1mA)	X	X		p				p	p	p	p	p				
TIL191A	50					X	X		p				p	p	p	p	p				
TIL191B	100					X	X	p	p	p	p	p	p								
TLP321	50-600 CTR Selection Available "GB" 100% Min "BL" 200% Min	5	80	100 (V <sub>CE</sub> = 48V)	0.4	X	X	p	p	p	p	p	p								

**Note 1:** X - Approved, p - Pending approval. For full ordering instructions, please see page 36

**Note 2:** EN60950 obtained through NEMKO

**Note 3:** Test Condition: V<sub>CE</sub> = 0.5V, I<sub>f</sub> = 1mA

# ISOCOM COMPONENTS

## In Line Packages cont.

Part Number	Features	Current Transfer Ratio IF = 1mA VCE = 0.5V Min (%)	Maximum Test Voltage (KV)	Continuous Forward Current Max (mA)	V <sub>CE(sat)</sub> I <sub>C</sub> = 10mA Min (V)	BV <sub>CEO</sub> I <sub>C</sub> = 0.5mA Min (V)	I <sub>CEO</sub> max V <sub>CE</sub> = 20V Max (mA)	V <sub>CE(sat)</sub> I <sub>F</sub> = 50mA I <sub>C</sub> = 2.5mA Max (V)	Schematic Number / Package Number	Available Safety Approvals <sup>1</sup>																																																																											
										U L	C S A	V D E	E S I	N E M K O	E N E C O	S E M K O	F I M K O																																																																				
TLP521	In Line LEDs and Transistors	50 - 600 <sup>3</sup> Selection Available	7.5 (pk)	50	5	55	100	0.4	35 / 12	X	X	p	p	p	p	p	p																																																																				
TLP621										X	X	p	p	p	p	p	p																																																																				
TLP624		100 - 1200 (V <sub>CE</sub> = 0.5V) (I <sub>F</sub> = 1mA)								X	X	X	p	p	p	p																																																																					
ISP321-2	Two Independent Isolators In One Package	50-600 <sup>3</sup> Selection Available			5	80	100 (V <sub>CE</sub> = 48V)	0.4	34 / 13	X	X	X	p	X	X	X	X																																																																				
ISP521-2										X	X	X	p	X	X	X	X																																																																				
ISP621-2										X	X	X	p	X	X	X	X																																																																				
ISP827		100-1200 (I <sub>F</sub> = 1mA) (V <sub>CE</sub> = 0.5V)			6	35 (I <sub>C</sub> = 1mA)	100 (V <sub>CE</sub> = 20V)	0.2(I <sub>F</sub> = 20mA) (I <sub>C</sub> = 1mA)	X	X	X	p	X	X	X	X																																																																					
ISP624-2									5	55	100	0.4(I <sub>F</sub> = 1mA) (I <sub>C</sub> = 0.5mA)	X	X	X	p	X	X	X	X																																																																	
PS2501-2													80 - 600	5	80 (I <sub>R</sub> = 5μA)	100 (V <sub>CE</sub> = 40V)	0.3(I <sub>F</sub> = 10mA) (I <sub>C</sub> = 2mA)	X	X	p	p	X	X	X	X																																																												
TIL192																		20	35	100	0.4(I <sub>F</sub> = 5mA) (I <sub>C</sub> = 1mA)	X	X	p	p	p	p	p	p																																																								
TIL192A																						50	X	X	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p																																													
TIL192B																																									100	X	X	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p																										
TLP321-2																																																												50-600 <sup>3</sup> Selection Available	5	80	100 (V <sub>CE</sub> = 48V)	0.4	X	X	p	p	p	p	p	p													
TLP521-2	X	X			p	p	p	p																																																									p	p	p	p	p	p	p	p	p	p	p	p	p								
TLP621-2									55	100	0.4(I <sub>F</sub> = 1mA) (I <sub>C</sub> = 0.5mA)	X																																																																		X	p	p	p	p	p	p	
TLP624-2			100-1200 (I <sub>F</sub> = 1mA) (V <sub>CE</sub> = 0.5V)	6								80	100 (V <sub>CE</sub> = 48V)	0.4	X	X	X																																																													p	X	X	X	X			
ISP321-4															Four Independent Isolators In One Package	50-600 <sup>3</sup> Selection Available	5	55	100	0.4	33 / 14																																																									X	X	X	p	X	X	X	X
ISP521-4																						X	X	X	p	X	X	X	X																																																								
ISP621-4																						X	X	X	p	X	X	X	X																																																								
ISP847																100-1200 (I <sub>F</sub> = 1mA) (V <sub>CE</sub> = 0.5V)	6	35 (I <sub>C</sub> = 1mA)	100 (V <sub>CE</sub> = 20V)	0.2(I <sub>F</sub> = 20mA) (I <sub>C</sub> = 1mA)	X	X	X	p	X	X	X	X																																																									
ISP624-4	5	55			100	0.4(I <sub>F</sub> = 1mA) (I <sub>C</sub> = 0.5mA)	X	X													X	p	X	X	X	X																																																											
PS2501-4							80 - 600	5	80 (I <sub>R</sub> = 5μA)	100 (V <sub>CE</sub> = 40V)	0.3(I <sub>F</sub> = 10mA) (I <sub>C</sub> = 2mA)										X	X	p	p	X	X	X	X																																																									
TIL193			20	35								100	0.4 (I <sub>F</sub> = 5mA) (I <sub>C</sub> = 1mA)	X							X	p	p	p	p	p	p																																																										
TIL193A														50							X	X	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p																																															
TIL193B																																							100	X	X	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p	p																												
TLP321-4																																																										50-600	5	80	100 (V <sub>CE</sub> = 48V)	0.4	X	X	p	p	p	p	p	p															
TLP521-4															X	X	p	p	p	p																																											p	p	p	p	p	p	p	p	p	p	p	p	p										
TLP621-4	55	100			0.4(I <sub>F</sub> = 1mA) (I <sub>C</sub> = 0.5mA)	X																																																																						X	p	p	p	p	p	p			
TLP624-4						100-1200 (I <sub>F</sub> = 1mA) (V <sub>CE</sub> = 0.5V)	6	80	100 (V <sub>CE</sub> = 48V)	0.4	X																																																																	X	X	p	X	X	X	X			

**Note 1:** X - Approved, p - Pending approval. For full ordering instructions, please see page 36

**Note 2:** EN60950 obtained through NEMKO

**Note 3:** Ordering suffix "GB" - 100% CTR Min, "BL" - 200% CTR Min.